



Icoment[®] 356

Resin Based Steel Reinforcement Primer and Bonding Bridge

Technical Data Sheet

DESCRIPTION

Icoment 356 is a three component epoxy resin and modified cement based anti-corrosive coating specifically formulated as a steel reinforcement primer and bonding bridge for concrete repair mortars.

USES

Icoment 356 may be used to bond **Icoment** mortars to existing cementitious or steel substrates and provide additional corrosion protection to reinforcement in **Icoment** repair mortars especially in areas of low concrete cover and in the presence of chlorides.

ADVANTAGES

- * Excellent adhesion to both steel and concrete.
- * Contains finely ground sulphate free cement as the corrosion passivator.
- * Forms a barrier to the passage of water borne chlorides.
- * Bonding bridge for all **Icoment** Repair Mortars.
- * High bond strength.
- * Spray or brush application.
- * Non-flammable
- * Solvent free.
- * Long open times.

Technical Data (typical)

Mixed colour:	Grey								
Mixed density:	Approx 2.0 kg/litre								
Volume solids:	100%								
Application temperatures:	+5°C minimum and rising +30°C maximum (Substrate and ambient)								
COATING SYSTEM:									
Steel reinforcement primer:	2 x 1 mm Icoment 356								
Bonding Bridge:	1 - 2 x Icoment 356								
Bond strengths:	Concrete 1 - 3 N/mm ² Steel 1 - 2 N/mm ²								
Pot-Life: (23°C)	90 - 120 minutes Subject to temperature								
Waiting times between coats:	Minimum 2 hours Maximum 16 hours Allow a minimum of 12 hours before bonding bridge application.								
Open times of bonding bridge for repair mortar application (hrs):	<table border="0"> <tr> <td>+5°C</td> <td>+10°C</td> <td>+20°C</td> <td>+30°C</td> </tr> <tr> <td>20</td> <td>16</td> <td>12</td> <td>8</td> </tr> </table>	+5°C	+10°C	+20°C	+30°C	20	16	12	8
+5°C	+10°C	+20°C	+30°C						
20	16	12	8						

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT

All exposed reinforcement should be thoroughly prepared to clean, bright metal, using abrasive blast cleaning or other approved means.

MIXING

Thoroughly mix component A (resin) and component B (hardener) individually, then mix together with slow speed drill (150 - 300 rpm). Gradually add component C (filler) and mix for a further 3 minutes until a uniform mix has been achieved. Allow to stand for 10 minutes to mature prior to application.

APPLICATION

Apply by brush to steel/concrete.

Steel reinforcement primer:

Within 4 hours of preparation of the steel, apply one coat of **Icoment 356** to a minimum thickness of 1mm. After the first coat has reached initial set, apply a second coat of **Icoment 356** onto the previously coated steel.

If the second coat of **Icoment 356** is allowed to dry prior to repair mortar application, then a fresh coat must be applied.

Bonding bridge:

Before applying the **Icoment 356** as a bonding bridge, all surfaces must be thoroughly prewetted to a saturated surface dry condition.

The **Icoment 356** is then applied by brush to the concrete substrate.

IMPORTANT CONSIDERATIONS

- * If a barrier to chlorides is required, then 2 coats should be applied to the concrete substrate.
- * Care should be taken to ensure continuous application behind the reinforcement bars.
- * When used as a bonding bridge, the "grab" properties of the **Icoment 356** will reduce if it dries out before **Icoment** mortar application. Repeat application if necessary.
- * Do not part mix components.
- * Under no circumstances should water or solvent be added to the mix.
- * Always apply two coats to the steel reinforcement.
- * The bonding bridge application also forms the second coat for the reinforcement primer.

CLEANING EQUIPMENT

Use clean water. Hardened material may only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

Steel reinforcement primer: Approx 2.0 kg/m² per coat
Bonding bridge: Approx 2.0 - 4.0 kg/m²
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+10°C - +30°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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Sika MonoTop[®] 610

Cementitious Based Steel Reinforcement Primer and Bonding Bridge

Technical Data Sheet

DESCRIPTION

Sika MonoTop 610 is a one component cementitious, polymer modified primer for reinforcement protection and also a bonding bridge for **MonoTop** concrete repair mortars.

USES

Sika MonoTop 610 may be used to bond **MonoTop** concrete repair mortars to existing cementitious or steel substrates and provide additional corrosion protection to reinforcement in **MonoTop** concrete repair mortars especially in areas of low concrete cover and in the presence of chlorides.

ADVANTAGES

- * Only requires mixing with water.
- * Easy, user friendly application.
- * Active corrosion inhibitors for added protection.
- * Excellent adhesion to concrete and steel.
- * Good resistance to water and chloride penetration.
- * Meets ZTV-SIB requirements for corrosion protection.
- * Good mechanical properties.
- * Sprayable by wet spray method.
- * Adjustable consistency.
- * Low wastage.
- * Disposable packaging.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Light Grey
Mixed density:	2.0 kg/litre
Volume solids:	100%
Mix ratio	
Water:Powder	1:4.13 by volume
For brush application	1:4.75 by weight (5.25 litres of water per 25kg bag)
For spray application	1:5 parts by weight 1:4.35 by volume (5 litres of water per 25kg bag)
COATING SYSTEM:	
Steel reinforcement primer:	2 x 1.0 mm Sika MonoTop 610
Bonding bridge:	1 x 1.0 mm Sika MonoTop 610
Bond strengths:	Concrete 1.0 - 2.5 N/mm ² Steel 1.0 - 2.0 N/mm ²
Application temperatures:	+5°C minimum and rising +30°C maximum (Substrate and ambient)
Pot life:	Approx 90 - 120 minutes Subject to temperature
Waiting time between coats:	4 - 5 hours
Allow similar times before bonding bridge application.	
Approved for potable water contact. Details available on request.	
All above values are approximate.	

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT

All exposed reinforcement should be thoroughly prepared to clean, bright metal, using abrasive blast cleaning or other approved means.

MIXING

Pour water in the correct ratio into the mixing vessel. Add powder while mixing continuously. To avoid entraining too much air use low speed mixer (max 500 rpm) for minimum 3 minutes. By gradually adding the powder in portions, the desired application consistency can be obtained.

APPLICATION

Apply by brush to steel/concrete.

Steel reinforcement primer:

Within 4 hours of preparation of the steel, apply one coat of **Sika MonoTop 610** to a minimum thickness of 1mm. After the first coat has reached initial set, apply a second coat of **Sika MonoTop 610** onto the previously coated steel.

If the second coat of **Sika MonoTop 610** is allowed to dry prior to repair mortar application, then a fresh coat must be applied.

Bonding bridge:

Before applying the **Sika MonoTop 610** as a bonding bridge, all surfaces must be thoroughly prewetted to a saturated surface dry condition. The **Sika MonoTop 610** is then applied by brush to the concrete substrate.

IMPORTANT CONSIDERATIONS

- * Care should be taken to ensure continuous application behind the bar
- * Do no part mix components.
- * Always apply two coats to the steel reinforcement.
- * The bonding bridge application also forms the second coat for the reinforcement primer.
- * When used as a bonding bridge, the "grab" properties of the **Sika MonoTop 610** will reduce if it dries out before **Sika MonoTop** mortar application. Repeat application if necessary.

CLEANING EQUIPMENT

Use clean water. Hardened material may only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1 litre of fresh mortar: approx 1.65kg dry powder.

Steel reinforcement primer: Approx 2.0 kg/m² per coat.

Bonding bridge: Approx 1.5 - 2.0 kg/m² dry

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+10°C - +25°C).

Handling Precautions

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SikaTop® Armatec 110

EpoCem®

Resin Based Steel Reinforcement Primer and Bonding Bridge

Technical Data Sheet

DESCRIPTION

SikaTop Armatec 110 EpoCem is a three component cement modified epoxy resin based anti-corrosive product containing corrosion inhibitors. It has been specifically formulated as a reinforcement primer and bonding bridge for concrete repair mortars.

USES

SikaTop 110 EpoCem may be used to bond concrete repair mortars, screeds or cementitious overlays to existing cementitious substrates. The material is also used as a steel corrosion primer to protect reinforcement in areas of low cover and in the presence of chlorides.

ADVANTAGES

- * Excellent adhesion to both steel and concrete.
- * Contains corrosion inhibitors.
- * Additional barrier to the passage of water and chlorides.
- * Excellent bonding bridge for cement or epoxy based repair mortars.
- * High strength, unaffected by moisture when cured.
- * Spray, brush or roller application.
- * Non-flammable.
- * Solvent free.
- * Long open times.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Grey								
Mixed density:	Approx. 2.0 kg/litre								
Volume solids:	100%								
Application temperatures:	+5°C minimum and rising +30°C maximum (Substrate and ambient)								
COATING SYSTEM:									
Steel reinforcement primer:	2 x 1 mm SikaTop Armatec 110 EpoCem								
Bonding Bridge:	1 - 2 x SikaTop Armatec 110 EpoCem								
Bond strengths:	Concrete: 1 - 3 N/mm ² Steel: 1 - 2 N/mm ²								
Index of resistance to diffusion of water vapour: (μH ₂ O)	100								
Index of resistance to diffusion of carbon dioxide: (μCO ₂)	14,000								
Pot life: (23°C)	90 - 120 minutes (Subject to temperature)								
Waiting times between coats:	Minimum 2 hours Maximum 16 hours								
Open times of bonding bridge for repair mortar application (hrs):	<table border="0"> <tr> <td>+5°C</td> <td>+10°C</td> <td>+20°C</td> <td>+30°C</td> </tr> <tr> <td>20</td> <td>16</td> <td>12</td> <td>8</td> </tr> </table>	+5°C	+10°C	+20°C	+30°C	20	16	12	8
+5°C	+10°C	+20°C	+30°C						
20	16	12	8						



Approved for potable water contact.
Details available on request.

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT

All exposed reinforcement should be thoroughly prepared to clean, bright metal, using abrasive blast cleaning or other approved means.

MIXING

Thoroughly mix component A (resin) and component B (hardener) individually, then mix together with slow speed drill (150 - 300 rpm). Gradually add component C (filler) and mix for a further 3 minutes until a uniform mix has been achieved. Allow to stand for 10 minutes to mature prior to application.

APPLICATION

Apply by brush to steel/concrete.

Steel reinforcement primer:

Within 4 hours of preparation of the steel, apply one coat of **SikaTop Armatec 110 EpoCem** to a minimum thickness of 1mm. After the first coat has reached initial set, apply a second coat of **SikaTop Armatec 110 EpoCem** onto the previously coated steel.

If the second coat of **SikaTop Armatec 110 EpoCem** is allowed to dry prior to repair mortar application, then a fresh coat must be applied.

Bonding bridge:

Before applying the **SikaTop Armatec 110 EpoCem** as a bonding bridge, all surfaces must be thoroughly prewetted to a saturated surface dry condition.

The **SikaTop Armatec 110 EpoCem** is then applied by brush to the concrete substrate.

IMPORTANT CONSIDERATIONS

- * If a barrier to chlorides is required, then 2 coats should be applied to the concrete substrate.
- * Care should be taken to ensure continuous application behind the reinforcement bars.
- * When used as a bonding bridge, the "grab" properties of the **SikaTop Armatec 110 EpoCem** will reduce if it dries out before the repair mortar application. Repeat application if necessary.
- * Do not part mix components.
- * Under no circumstances should water or solvent be added to the mix.
- * Always apply two coats to the steel reinforcement.
- * The bonding bridge application also forms the second coat for the reinforcement primer.

CLEANING EQUIPMENT

Use clean water. Hardened material may only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

Steel reinforcement primer: Approx 2.0 kg/m² per coat

Bonding bridge: Approx 2.0 - 4.0 kg/m²

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+10°C - +30°C).



Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Icoment[®] 501

Cementitious Based Bonding Bridge

Technical Data Sheet

DESCRIPTION

Icoment 501 is a one component cementitious based material. When mixed with **Icoment 505 Additiv** gauging liquid it provides a polymer modified bonding bridge.

USES

Icoment 501 bonding bridge may be used to bond **Icoment** concrete repair mortars to prepared concrete.

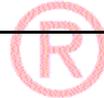
ADVANTAGES

- * Part of the **Icoment** BBA approved system.
- * Excellent adhesion.
- * Easy to apply.
- * Applied by brush.
- * Solvent free.
- * Non flammable.

Technical Data (typical)

Mixed colour:	Grey
Mixed density:	2.0 kg/litre
Volume solids:	100%
Application temperatures:	+5°C minimum and rising +25°C maximum (Substrate and ambient)
Bond strengths:	Concrete 1.0 - 3.0 N/mm ² Steel 1.0 - 2.0 N/mm ²
COATING SYSTEM:	
Bonding Bridge:	1 x 1.0 mm Icoment 501
'Working time': (@ 23°C)	Approx 30 minutes

Note: All above values are approximate.



CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT

All exposed reinforcement should be thoroughly prepared to clean, bright metal, using abrasive blast cleaning or other approved means.

MIXING

Gauging liquid:

Stir **Icoment 505 Additiv** thoroughly. Dilute the **Icoment 505 Additiv** with water 1:1 by volume and stir the mixture thoroughly.

Bonding bridge:

- * Mix **Icoment 501** thoroughly using a drill and paddle or forced action mixer.
- * Stir the gauging liquid
- * Gradually add the gauging liquid to the **Icoment 501** while mixing to produce a uniform mix of the required consistency.

Mix composition:

1 kg **Icoment 505 Additiv** + 1.1 kg water : 8.0 kg

Icoment 501.

0.8 litres **Icoment 505 Additiv** + 1.1 litres water = 4 litres

Icoment 501.

APPLICATION

Following thorough pre-wetting (saturated, but surface dry), apply a bonding bridge of **Icoment 501**, working the material well into the substrate. If the bonding bridge is allowed to dry, a fresh application must be made prior to placement of repair mortars, to ensure 'wet on wet' application.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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IMPORTANT CONSIDERATIONS

- * Always use **Icoment 505 Additiv** in gauging liquid.
- * Do not use in freezing conditions.
- * Do not combine with other additives.
- * Always mix **Icoment 501** before adding gauging liquid.
- * Always stir gauging liquid before adding to **Icoment 501**.
- * Always use clean potable water in gauging liquid.
- * Do not add more water or gauging liquid to mix when mortar becomes 'stiff' during use.

CLEANING EQUIPMENT

Use clean water. Hardened material may only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

Approximately 1.5 kg/m². This corresponds to approximately 0.2 kg/m² of **Icoment 505 Additiv**. (These figures do not allow for surface texture or wastage).

STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse conditions (+10°C - +25°C).





SikaTop[®] 121

Thin Layer Waterproofing Render and Levelling Mortar

Technical Data Sheet

DESCRIPTION

SikaTop 121 is a two component polymer modified cementitious waterproof mortar comprising of a liquid polymer and a special cement based mix incorporating admixtures.

USES

- * For internal waterproof tanking of concrete basements, pits and tanks against ground water ingress.
- * For internal waterproof lining of concrete water tanks, pools etc against leakage.
- * Fine crack and blow hole filler.
- * Levelling mortar.
- * Bonding bridge for **SikaTop** repair mortars.

ADVANTAGES

- * Pre batched for quality.
- * No water required.
- * Fast and easy to apply.
- * Excellent bond strength and adhesive properties.
- * High early and final strengths.
- * Waterproof.
- * High abrasion resistance.
- * Free of chloride ions.
- * Non-corrosive to steel.
- * Suitable for drinking water contact.
- * BBA approved.

Technical Data (typical)

Mixed colour: Cement grey
(Component A: white liquid)
(Component B: grey powder)

Mixed wet density: 2.0 kg/litre

Application temperature: +7°C min, +25°C max
(Substrate and ambient)

Application thickness per layer: 1.0 mm minimum
5.0 mm maximum

MECHANICAL PROPERTIES

28 days @ 20°C RH 65%

Compressive strength: 45.0 N/mm²

Flexural strength: 12.0 N/mm²

Bond strength (tensile): 3.0 N/mm²
(Failure in substrate)

E-Modulus (static): 25.0 kN/mm²

Water vapour resistance: 19 MNsg⁻¹

'Working time' (@20°C): 30 minutes

Approved for potable water contact.
Details and return to service information available on request.

All above values are approximate.

WATERPROOF TANKING

Applied in 2 layers to give a total thickness of between 5.0 and 8.0 mm.

Refer to Installation Guide and BBA Detail Sheet 4.

CONCRETE SUBSTRATE PREPARATION

Bonding Bridge:

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

Levelling Mortar:

Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed. The resultant surface finish should be profiled for maximum bond.

MIXING

SikaTop 121 should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Shake component A before using. Pour approximately ½ component A into mixing container and add component B slowly while mixing. When homogeneous, add the remainder of the component A and remix. Normal mixing time depends on the type of mixer used, 2 - 3 minutes is average. Mix so as to entrain as little air as possible and use without delay.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Apply **SikaTop 121** by brush, spatula or trowel to the required finish.

Where **SikaTop** is to be overcoated, finishing with a damp sponge after initial set has taken place is recommended.

Do not overwork **SikaTop 121** during or after applying. Should **SikaTop** mortar be wetted during the initial cure period a white 'bloom' may be produced on the surface. This however, does not affect the long term properties of the mortar.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Please consult our Technical Sales Department for further information

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure **SikaTop 121** immediately after application for a minimum of 3 - 7 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or other approved method.

- * **SikaTop 121** can be overpainted. A solvent based epoxy primer must be used such as **Sikafloor 619** or **Sikafloor 2420**, if solvent free finish coats are required. Solvent based coatings can be used without additional primer. Allow 14 days before overcoating.
- * Mix to a uniform lump free consistency. Do not overmix.
- * Special attention is required to avoid puncturing the waterproof tanking with fixings. These should be accommodated either by surface bonding with **SikaDur® 31** or **Sikaflex® 11FC**.
- * Ensure associated Sika products and construction materials also have DWI approval when used in structures where DWI compliance is required.
- * Hardened **SikaTop 121** requires needle-gunning and wetting down should subsequent layers of **SikaTop** need to be applied.
- * **SikaTop 121** is not a traffickable finish.
- * Apply only to prepared, sound substrates.
- * Allow repair mortar to harden between applications.
- * Protect freshly applied material from freezing.

CLEANING

Remove **SikaTop 121** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.0 kg/m²/mm (2.0 kg/litre)

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).





Icoment® 503

Cementitious High Build Concrete Repair Mortar

Technical Data Sheet

DESCRIPTION

Icoment 503 is a two component high build pre batched mortar. Component A is a modified acrylic resin dispersion with cement reactive substances. Component B contains Portland cement and graded aggregates.

Icoment 503 is particularly suitable for concrete repairs in overhead or vertical situations.

USES

- * For repairing all types of concrete.
- * Overhead and vertical repairs.
- * Hand applied repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Part of the **Icoment Concrete Repair System**.
- * Compatible with **Sika FerroGard** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * High build.
- * Overcoatable with **Sika** reprofiling/levelling mortars and coatings.
- * Low shrinkage.
- * Coefficient of thermal expansion similar to concrete.
- * Fire rating and protection properties comparable to concrete.
- * BBA approved.
- * Good mechanical properties.

Technical Data (typical)

Mixed colour:	Concrete grey
Mixed wet density:	1.8 kg/litre
Application temperature:	+3°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	10.0 mm minimum 25.0 mm maximum

MECHANICAL PROPERTIES 28 days @ 20°C

Compressive strength:	23.0 N/mm ²
Flexural strength:	7.0 N/mm ²
Bond strength: (tensile)	1.0 - 2.20 N/mm ² (Substrate failure)
Shrinkage:	0.7 mm/m

All above values are approximate.



CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **lcoment 503** into the repair area, apply two coats of **lcoment 256** or **lcoment 356** in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **lcoment 356** or **lcoment 501** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

lcoment 503 repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

- * Empty liquid (component A) from plastic container into mixer or drum.
- * Fill plastic container with water, thoroughly shake and empty into the mixer to produce a gauging liquid.
- * Thoroughly mix gauging liquid.
- * Add the aggregate (component B) into the mixed gauging liquid and mix thoroughly.
- * Immediately apply the repair mortar.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. Apply a bonding bridge of **lcoment 356** or **lcoment 501** if more than 12 hours between layers. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

- * Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.
- * Do not add water over recommended dosage. Maximum 2.5 litres of water.

- * Apply only to prepared, sound substrates.

- * Allow repair mortar to harden between applications.

- * Protect freshly applied material from freezing.

CLEANING

Remove **lcoment 503** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.8 kg/m²/mm (1.8 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.
25 kg yields approximately 15 litres.

STORAGE AND SHELF LIFE

Minimum 8 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).





Icoment® 504

Cementitious Concrete Repair Mortar

Technical Data Sheet

DESCRIPTION

Icoment 504 is a dry mortar containing portland cement and graded quartz aggregate (0 - 4.0 mm). The concrete repair mortar is produced when mixed with a gauging liquid of **Icoment 505 Additiv**.

USES

- * For repairing all types of concrete.
- * Horizontal, vertical and overhead repairs.
- * Hand applied repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Part of the **Icoment** Concrete Repair System.
- * Compatible with **Sika FerroGard** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Overcoatable with **Sika** reprofiling/levelling mortars and coatings.
- * Low shrinkage.
- * Generally more durable than equivalent class of concrete.
- * Coefficient of thermal expansion similar to concrete.
- * Fire rating and protection properties comparable to concrete.
- * BBA approved.
- * Good mechanical properties.

Technical Data (typical)

Mixed colour:	Concrete grey
Mixed wet density:	2.2 kg/litre
Application temperature:	+3°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	10.0 mm minimum 25.0 mm maximum

MECHANICAL PROPERTIES 28 days @ 20°C

Compressive strength:	45 - 55 N/mm ²
Flexural strength:	8 - 12 N/mm ²
Bond strength (tensile)	1.0 - 2.0 N/mm ² (Substrate failure)
E-Modulus (static):	21.0 kN/mm ²
Shrinkage:	0.7 mm/m

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **Icoment 504** into the repair area, apply two coats of **Icoment 256** or **Icoment 356** onto the reinforcement in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **Icoment 356** or **Icoment 501** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

Icoment 504 repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

- * Mix **Icoment 504** thoroughly.
- * Stir the gauging liquid.
- * Gradually add the gauging liquid to the **Icoment 504** while mixing to produce a uniform consistency.
- * Immediately apply the repair mortar.

45 kg requires 5.0 - 5.5 litres of gauging liquid.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 12 hours between layers, apply a bonding bridge of **Icoment 356** or **Icoment 501**. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

- * Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.
- * Always use **Icoment 505 Additiv** in gauging liquid.
- * Do not add water over recommended dosage.
- * Do not combine with other additives.
- * Apply only to prepared, sound substrates.
- * Allow repair mortar to harden between applications.
- * Protect freshly applied material from freezing.

CLEANING

Remove **Icoment 504** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.2 kg/m²/mm (2.2 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.
45 kg yields approximately 21 litres.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



Sika MonoTop® 612

Wet Spray / Hand Placed Repair Microconcrete

Technical Data Sheet

DESCRIPTION

Sika MonoTop 612 is a cement-based, one component low permeability repair microconcrete, containing silica fume and polymer.

USES

- * For repairing all types of structures.
- * Horizontal, vertical and overhead repairs.
- * Hand applied repairs.
- * Spray applied repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre bagged for quality.
- * Just add water.
- * Compatible with **Sika® FerroGard®** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * High build.
- * Overcoatable with **Sika** reprofiling/levelling mortars and coatings.
- * Low shrinkage.
- * Generally more durable than equivalent class of concrete.
- * Fire rating and protection properties comparable to concrete.
- * Good mechanical properties.
- * Adjustable consistency.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	2.1 kg/litre
Application temperature:	+5°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	5.0 mm minimum 30.0 mm maximum
Mix ratio:	
Hand application:	2.5 - 2.7 litres water per 25 kg bag
Wet spray application:	2.5 - 3.5 litres water per 25 kg bag

MECHANICAL PROPERTIES

28 days @ 20°C	RH 50%
Compressive strength N/mm²:	1 day 28 days 15 - 20 45 - 55
Flexural strength:	7 - 9 N/mm ²
Bond strength: (tensile)	1.5 - 2.5 N/mm ² (Substrate failure)
E-Modulus (static):	25.0 kN/mm ²
Drying shrinkage: (BS6073: Pt 1: 1981)	0.04% (mean)
'Working time': (@23°C)	30 - 50 minutes
Thermal coefficient of expansion:	12.0 x 10 ⁻⁶ °C ⁻¹

Approved for potable water contact.
Details available on request.

All above values are approximate.

SURFACE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

REINFORCEMENT PREPARATION

All exposed reinforcement should be thoroughly prepared to clean, bright metal, using abrasive blast cleaning or other approved means.

STEEL REINFORCEMENT PRIMING

Prior to applying **Sika MonoTop 612** into the repair area, apply two coats of **Sika MonoTop 610** onto the reinforcement in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **Sika MonoTop 610** or **SikaTop Armatec 110 EpoCem** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

Sika Monotop 610 repair mortar if applied by hand should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable. If spray applied use appropriate equipment.

Pour water in the correct proportion into the mixing vessel. Add powder while mixing continuously. To avoid entraining too much air use low speed mixer (max 500 rpm) for minimum 3 minutes. By gradually adding the powder in portions, the desired application consistency can be obtained.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand, trowel or by wet spray equipment, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 24 hours between layers, apply a bonding bridge of **Sika MonoTop 610** or **Armatec 110 EpoCem**. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

- * Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.
- * **Sika MonoTop 610** should be used as a bonding bridge for hand and spray applied applications.
- * Do not add water over recommended dosage.
- * Once **Sika MonoTop 612** has started to set it should be discarded. Do not add more water to improve workability.
- * Apply only to prepared, sound substrates.
- * Allow repair mortar to harden between applications.
- * Protect freshly applied material from freezing.

CLEANING

Remove **Sika MonoTop 612** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.1 kg/m²/mm (2.1 kg/litre)

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).





Sika MonoTop[®] 615

Cementitious High Build Concrete Repair and Reprofiling Mortar

Technical Data Sheet

DESCRIPTION

Sika MonoTop 615 is a one component cement based polymer modified high build repair and reprofiling mortar.

USES

- * For repairing all types of structures.
- * Overhead and vertical repairs.
- * Hand applied repairs.
- * Spray applied repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre bagged for quality.
- * Just add water.
- * Compatible with **Sika[®] FerroGard[®]** corrosion inhibitors.
- * Easy to mix and apply.
- * Sprayable by the wet spray method.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * High build.
- * Overcoatable with **SikaGard[®]** coatings.
- * Low shrinkage.
- * Generally more durable than equivalent class of concrete.
- * Coefficient of thermal expansion similar to concrete.
- * Fire rating and protection properties comparable to concrete.
- * Good mechanical properties.
- * Low wastage.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	1.65 kg/litre
Application temperature:	+5°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	3.0 mm minimum 30.0 mm maximum
Mix ratio:	
Hand application:	2.5 - 2.7 litres water per 25 kg bag
Wet spray application:	2.5 - 3.5 litres water per 25 kg bag

MECHANICAL PROPERTIES

28 days @ 20°C

Compressive strength:	30 - 35 N/mm ²
Flexural strength:	5 - 7 N/mm ²
Bond strength (tensile):	1.5 - 2.5 N/mm ² (Substrate failure)
E-Modulus (static):	13.0 kN/mm ²
'Working time': (@23°C)	30 - 50 minutes



All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **Sika MonoTop 615** into the repair area, apply two coats of **Sika MonoTop 610** in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **Sika MonoTop 610** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

Sika MonoTop 615 repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Pour water in the correct proportion into the mixing vessel. Add powder while mixing continuously. To avoid entraining too much air use low speed mixer (max 500 rpm) for minimum 3 minutes. By gradually adding the powder in portions, the desired application consistency can be obtained.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 24 hours between layers, apply a bonding bridge of **Sika MonoTop 610** or **Armatec 110 EpoCem**[®]. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

- * Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.
- * **Sika MonoTop 610** should be used as a bonding bridge for hand and spray applied applications.
- * Do not add water over recommended dosage.
- * Once **Sika MonoTop 615** has started to set it should be discarded. Do not add more water to improve workability.
- * Apply only to prepared, sound substrates.
- * Allow repair mortar to harden between applications.
- * Protect freshly applied material from freezing.

CLEANING

Remove **Sika MonoTop 615** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.65 kg/m²/mm (1.65 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



SikaTop® 122

Cementitious Concrete Repair Mortar

Technical Data Sheet

DESCRIPTION

SikaTop 122 is a two component polymer modified cement based fibre reinforced concrete waterproof repair mortar.

USES

- * For repairing all types of concrete.
- * For high strength repairs .
- * Repairs to floors.
- * Horizontal and vertical repairs.
- * Hand applied repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Compatible with **Sika® FerroGard®** corrosion inhibitors.
- * Overcoatable with **Sika** reprofiling/levelling mortars and coatings.
- * Fast and easy to apply.
- * No water required.
- * Excellent bond strength and adhesive properties.
- * High early and final strengths.
- * Increased resistance to de icing salts, oils, sewage, chemicals, chloride ions and carbonation.
- * High abrasion resistance.
- * Compatible with the thermal expansion properties of concrete.
- * Free of chloride ions.
- * Non-corrosive to steel.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Cement grey (Component A: white liquid) (Component B: grey powder)
Mixed wet density:	2.1 kg/litre
Application temperature:	+8°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	4.0 mm minimum 20.0 mm maximum (vertical) 75.0 mm maximum (horizontal) if bulked out

MECHANICAL PROPERTIES

28 days @ 20°C	RH 65%
Compressive strength:	>55 N/mm ²
Tensile strength:	7.6 N/mm ²
Flexural strength:	10 - 12 N/mm ²
Bond strength: (tensile)	1.0 - 3.0 N/mm ² (Substrate failure)
E-Modulus (static):	19.3 kN/mm ²
'Working time': (@20°C)	30 minutes

Approved for potable water contact.
Details available on request.

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **SikaTop 122** into the repair area, apply two coats of **SikaTop® Armatec 110 EpoCem®** onto the reinforcement in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **SikaTop 121** or **SikaTop® Armatec 110 EpoCem®** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

SikaTop 122 repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Shake component A before using. Pour approximately ½ component A into mixing container and add component B slowly while mixing. When homogeneous, add the remainder of the component A and remix. Normal mixing time depends on the type of mixer used, 2 - 3 minutes is average. Mix so as to entrain as little air as possible and use without delay.

When mixed, the produce may be bulked out with dry, dust free aggregate (40% by wt of 3 - 6 mm granite chippings) and remixed to a uniform consistency.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 12 hours between layers, apply a bonding bridge of **SikaTop 121** or **Armatec 110 EpoCem**. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 - 7 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

- * Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.
- * Do not add water.
- * Apply only to prepared, sound substrates.
- * Allow repair mortar to harden between applications.
- * Protect freshly applied material from freezing.

CLEANING

Remove **SikaTop 122** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.1 kg/m²/mm (2.1 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).





SikaTop[®] 122HB

Cementitious High Build Concrete Repair Mortar

Technical Data Sheet

DESCRIPTION

SikaTop 122HB is a two component polymer modified cement based high build concrete repair mortar.

USES

- * For repairing all types of concrete.
- * Horizontal, vertical and overhead repairs.
- * Hand applied repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * No water required.
- * Very high 'sag' resistance.
- * Compatible with **Sika[®] FerroGard[®]** corrosion inhibitors.
- * Overcoatable with **Sika** reprofiling/levelling mortars and coatings.
- * Fast and easy to apply.
- * Excellent bond strength and adhesive properties.
- * High early and final strengths.
- * Increased resistance to de icing salts, oils, sewage, chemicals, chloride ions and carbonation.
- * High abrasion resistance.
- * Compatible with the thermal expansion properties of concrete.
- * Free of chloride ions.
- * Non-corrosive to steel.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Cement grey
Mixed wet density:	1.4 kg/litre
Application temperature:	+6°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	5.0 mm minimum 40.0 mm maximum

MECHANICAL PROPERTIES

28 days @ 20°C RH 65%

Compressive strength: 22 N/mm²

Tensile strength: 4.6 N/mm²

Flexural strength: 5.8 N/mm²

Bond strength (tensile): 1.0 - 2.0 N/mm²
(Substrate failure)

E-Modulus (static): 5.9 kN/mm²

'Working time': 30 minutes
(@20°C)

Approved for potable water contact.
Details available on request.

All above values are approximate.



CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **SikaTop 122HB** into the repair area, apply two coats of **SikTop® Armatec 110 EpoCem®** onto the reinforcement in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **SikaTop 121** or **SikaTop Armatec 110 EpoCem** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

SikaTop 122HB repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Shake component A before using. Pour approximately ½ component A into mixing container and add component B slowly while mixing. When homogeneous, add the remainder of the component A and remix. Normal mixing time depends on the type of mixer used, 2 - 3 minutes is average. Mix so as to entrain as little air as possible and use without delay.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 12 hours between layers, apply a bonding bridge of **SikaTop 121** or **Armatec 110 EpoCem**. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 - 5 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

★ Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.

★ Do not add water.

★ Apply only to prepared, sound substrates.

★ Allow repair mortar to harden between applications.

★ Protect freshly applied material from freezing.

CLEANING

Remove **SikaTop 122HB** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.4 kg/m²/mm (1.4 kg/litre)

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



SikaCem® 133 Gunitite

Dry Sprayed Micro Repair Concrete

Technical Data Sheet

DESCRIPTION

SikaCem 133 Gunitite is a cement based, polymer-modified one component repair mortar containing silica fume and high range water-reducing agents. Formulated for machine applications using the dry process without set accelerators, repairs may be profiled and trowel finished where necessary.

USES

- * Large volume repairs.
- * Bridges.
- * Viaducts.
- * Retaining walls.
- * Marine structures.
- * Fire damaged concrete.
- * Tunnels.
- * Dams.
- * Facades.
- * For exterior and interior use.

ADVANTAGES

- * One component, ready to use micro concrete.
- * Non silica aggregates.
- * Low rebound losses and dust formation during the spraying process.
- * Excellent adhesion to correctly prepared concrete.
- * Layer thicknesses in one application overhead up to 150mm are possible without any additional mesh reinforcement.
- * Rapid strength gain without set accelerators.
- * Very low shrinkage.
- * Can be finished to a high standard.
- * Low water absorption and chloride ion diffusion compared to ordinary concrete.
- * High resistance to freeze-thaw attack.
- * High resistance to the diffusion of carbon dioxide.
- * Complies with BE Directives.
- * Compatible with **Sika® FerroGard®** corrosion inhibitors.
- * Overcoatable with **Sika** reprofiling/levelling mortars and coatings.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	2.2 kg/litre (2200 kg/m ³)
Application temperature:	+3°C min, +30°C max (Substrate and ambient)
Maximum aggregate size:	3.0 mm
Application thickness per layer:	10 mm minimum 150 mm maximum

MECHANICAL PROPERTIES

28 days @ 23°C Air cured cores RH 50%

Compressive strength:	12 hrs	1 - 5 N/mm ²
	1 day	5 - 10 N/mm ²
	7 days	25 - 35 N/mm ²
	28 days	45 - 55 N/mm ²

Flexural strength: 10 N/mm²

Bond strength (tensile): 2-3 N/mm²
(Substrate failure) 

E-Modulus (static): 24.0 kN/mm²
(+20°C to -20°C)

Drying shrinkage: 0.02% (mean)
(BS6073: Pt 1: 1981)

Coefficient of thermal expansion 8 x 10⁻⁶/°C

Carbon dioxide diffusion coefficient, 8 x 10⁻⁶
μ (Engelfried method)

Coefficient of chloride ion diffusion 600 - 700 x 10⁻¹⁵m²/s

Coefficient of water absorption A 0.081 kg/m² x h^{0.5}

Freeze/thaw de-icing salt resistance (to SN 640461) 106% Good resistance with no visible change after 400 cycles.

Resistivity factor WFT-L:

Approved for potable water contact.
Details available on request.

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

REINFORCEMENT PREPARATION

All exposed reinforcement should be thoroughly prepared to clean, bright metal, using abrasive blast cleaning or other approved means.

STEEL REINFORCEMENT PRIMING

Additional corrosion protection can be provided by applying two coats of **SikaTop® Armatec 110 EpoCem®** onto the reinforcement in accordance with the product technical data sheet.

MIXING/APPLICATION

SikaCem 133 Gunite is fed into the dry process spraying machine. The amount of water added is controlled by the nozzleman and should be sufficient to prevent slump and dust. Rebound will be increased with a dry mixture and thin layers.

SikaCem 133 Gunite is finished by leaving 'as shot' or striking off with a straight edge and closing the surface with a wooden/plastic float or damp sponge to achieve the desired surface texture.

IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method, such as a liquid curing membrane. Remove membrane if coating is to be applied as final finish.

- * Do not add water over recommended dosage.
- * Apply only to prepared, sound substrates.
- * Allow repair mortar to harden between applications.
- * Protect freshly applied material from freezing.

CLEANING

Remove **SikaCem 133 Gunite** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.2 kg/m²/mm (2.2 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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Sika® InjectoCem 190

Micro Cement Injection

Technical Data Sheet

DESCRIPTION

Sika InjectoCem 190 is a two component injection suspension on micro cement with integrated corrosion inhibitors.

USES

- * Void filling around filler joints.
- * Filling of voids.
- * Sealing of cracks and fissures.
- * For exterior and interior use.

ADVANTAGES

- * Corrosion protection of reinforcement and steel sections.
- * Pre batched for quality.
- * Water may be added to improve flowability
- * Contains corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Good flow properties.
- * Contains no chloride admixtures.
- * Suitable for use with the **Sika Injectoflex System**.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	1.70 kg/litre
Application temperature:	+5°C min, +25°C max (Substrate and ambient)
Crack width range:	>0.2 mm
Injection pressure:	3 - 8 bar

MECHANICAL PROPERTIES

Compressive strength: (N/mm ²)	1 day	7 days	28 days
	40	44	47
Shrinkage:			
Dry cured	0.45%		
Wet cured	0.025%		

Pot life: 2 hours max
(@20°C)

All above values are approximate.



CONCRETE SUBSTRATE PREPARATION

Remove water contained in cracks, voids and fissures, then purge with clean water or **Sika InjectoCem 190** until water or micro-cement runs contaminant free.

MIXING

Pour liquid (component B) into suitable mixing vessel. Mix with colloidal mixer at 4,000 rpm and slowly, continuously add the powder (component A). Upto 0.2 l of water may be added at this stage. Increase mixing speed to 8,000 rpm. Mix suspension intensively for at least 3 minutes.

Pour injection suspension directly into pump or keep ready in clean container. If left standing, re-mix again before injection.

INJECTION

Injection suspension may be injected into substrate after any necessary capping/sealing with any standard dispensing equipment manufactured for cement injection work.

IMPORTANT CONSIDERATIONS

- * Crack injection is a specialist technique. The success is dependent on the resin, pressure, spacing of ports and equipment used. Therefore, it is recommended a specialist injection contractor is used.
- * At higher temperatures pot life will be shortened.
- * At lower temperatures the material will become more difficult to inject and takes longer to harden.
- * Wear suitable protective clothing, gloves and eye protection.
- * Establish cracks are static. Moving cracks should be treated as movement joints.
- * Take cores at location of cracks to clarify penetration and method of injection.
- * Trials should be undertaken to establish suitability of resin, spacing of injection ports, injection equipment and pressure of injection.
- * Do not exceed water dosage level.

CLEANING

Remove **Sika InjectoCem 190** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.7 kg/m²/mm (1.7 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 12 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Sika® Rapid Repair Mortar

Fast Setting Cementitious Repair Mortar

Technical Data Sheet

DESCRIPTION

Sika Rapid Repair Mortar is a one component fast setting cementitious repair mortar.

USES

- * Fast repairs to horizontal or vertical concrete surfaces.
- * Floor slabs
- * Filling/repair mortar for voids, honeycombed areas etc.
- * Concrete pavements.
- * Bedding manhole covers.

ADVANTAGES

- * Only requires mixing with water
- * Rapid setting.
- * Fast and easy to apply.
- * Factory proportioned.
- * High early strength.
- * Excellent adhesion.
- * Increased resistance to de icing salts, chloride ions and carbonation.
- * Free of chloride compounds.
- * Non-corrosive to steel.
- * Can be overcoated.

Technical Data (typical)

Mixed colour:	Concrete grey
Mixed wet density:	2.1 kg/litre
Application temperature:	+5°C min, +25°C max (Substrate and ambient)
Application thickness per layer:	8.0 mm minimum 30.0 mm maximum
Mix ratio:	2.5 - 3.0 litres of water per 25 k bag
MECHANICAL PROPERTIES	
28 days @ 20°C Air cured	
Compressive strength:	2 hrs 24 hrs 7 days 10 N/mm ² 50 N/mm ² 60 N/mm ²
Bond strength: (tensile)	1.0 - 2.3 N/mm ² 
'Working time': (@20°C)	15 - 20 minutes

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **Sika Rapid Repair Mortar** into the repair area, apply two coats of **SikaTop® Armatec 110 EpoCem®** or **Sika MonoTop® 610** onto the reinforcement in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **SikaTop 121** or **SikaTop Armatec 110 EpoCem** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

Sika Rapid Repair Mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Mix **Sika Rapid Repair Mortar** with water for at least 3 minutes to achieve a uniform consistency. Immediately apply the repair mortar. When mixed, the product may be bulked out with dry, dust free aggregates (30% by wt of 3-6 mm granite chippings) and remixed to a uniform consistency.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 12 hours between layers, apply a bonding bridge of **SikaTop 121** or **Armatec 110 EpoCem®**. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

Handling Precautions

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Important Note

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 7 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

✳ Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.

✳ Do not add water over recommended dosage.

✳ Apply only to prepared, sound substrates.

✳ Allow repair mortar to harden between applications.

✳ Protect freshly applied material from freezing.

CLEANING

Remove **Sika Rapid Repair Mortar** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.1 kg/m²/mm (2.1 kg/litre)

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



SikaDur[®] 45 EpoCem[®]

Epoxy-Cement Concrete Repair Mortar

Technical Data Sheet

DESCRIPTION

Sikadur 45 EpoCem is a three component high performance epoxy-cement repair mortar.

USES

Concrete repairs in continually wet conditions such as:

- * Sewage treatment plants.
- * Bunds.
- * Effluent tanks.
- * Basements.
- * Floor repairs.
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Rapid strength gain.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Waterproof.
- * Low shrinkage.
- * Generally more durable than equivalent class of concrete.
- * Coefficient of thermal expansion similar to concrete.
- * Good mechanical properties.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Grey	
Mixed wet density:	2.15 kg/litre	
Application temperature:	+5°C min, +30°C max (Substrate and ambient)	
Application thickness per layer:	9.0 mm minimum 30.0 mm maximum	
MECHANICAL PROPERTIES		
	3 days	28 days
Compressive strength:	35 - 42 N/mm ²	45 - 48 N/mm ²
Flexural strength:	6 - 8 N/mm ²	7 - 9 N/mm ²
Bond strength (tensile)	-	2 - 3 N/mm ² (Substrate failure)
'Working time': (@20°C)	30 - 40 minutes	

Approved for potable water contact.
Details available on request.

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Breakout and remove all concrete designated as being defective, loose and unsound, using suitable mechanical equipment.

Ensure sufficient concrete is removed from around reinforcement to allow priming and compaction of the repair material.

At the repair locations, feather edging should be avoided. The edges should be square cut to at least the recommended minimum application thickness of the repair material. Where a saw cut is employed, the substrate should be roughened mechanically to provide a 'key' between the repair mortar and substrate.

STEEL REINFORCEMENT PRIMING

Prior to applying **SikaDur 45 EpoCem** into the repair area, apply two coats of **SikaTop® Armatec 110 EpoCem®** onto the reinforcement in accordance with the product technical data sheet.

CONCRETE SUBSTRATE PRIMING

The prepared substrate should be thoroughly soaked with clean water until uniformly saturated leaving no standing water. To the pre-dampened surface, brush apply a bonding bridge of **SikaTop Armatec 110 EpoCem** prior to the application of the repair mortar. Always apply repair mortar "wet on wet" to bonding bridge. Re-apply bonding bridge if surface dries.

MIXING

SikaDur 45 EpoCem repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Shake component A (white liquid) then pour into component B and shake for 30 seconds. Then mix with component C thoroughly with a low speed electric stirrer (300 - 400 rpm) for a minimum of 3 minutes until a uniform mix has been achieved. Immediately apply the repair mortar.

APPLICATION

The mixed mortar must be worked well into the wet primed substrate by gloved hand or trowel, filling all voids ensuring full encapsulation around exposed reinforcement. Compact well. Apply in layers to the maximum application thickness and allow to reach initial set. If more than 12 hours between layers, apply a bonding bridge of **Armatec 110 EpoCem®**. The final layer is best finished with a wood/plastic float or a damp sponge after initial set has taken place, to provide a textured surface suitable for the subsequent application of reprofiling mortars and coatings.

IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the repair mortar immediately after application for a minimum of 24 hours to ensure full cement hydration and to minimise cracking. Use polythene sheeting taped down at the edges or other approved method.

★ Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.

★ Do not add water.

★ Apply only to prepared, sound substrates.

★ Allow repair mortar to harden between applications.

★ Differing temperatures at the time of application will affect the workability of the product. This can be improved by reducing component C by a maximum of 10% by wt.

★ Protect freshly applied material from freezing.

CLEANING

Remove **SikaDur 45 EpoCem** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.15 kg/m²/mm (2.15 kg/litre)

Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Icoment® 520

Cementitious Levelling Mortar for Concrete Repair

Technical Data Sheet

DESCRIPTION

Icoment 520 is a two component polymer modified cementitious mortar for levelling and reprofiling concrete surfaces. The liquid (component A) consists of a specially developed polymer dispersion. The powder (component B) contains hydraulic binders and mineral fillers.

USES

- * Levelling concrete surfaces.
- * Filling small voids and cavities.
- * For exterior and interior use.

ADVANTAGES

- * Part of the **Icoment** Concrete Repair System.
- * Pre batched for quality.
- * Compatible with **Sika® FerroGard®** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Overcoatable with **SikaGard®** coatings.
- * Low shrinkage.
- * Coefficient of thermal expansion similar to concrete.
- * BBA approved.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	1.9 kg/litre
Application temperature:	+3°C min, +25°C max (Substrate and ambient)
Application thickness per layer:	2.0 mm minimum 3.0 - 5.0 mm maximum (bulked)
Overcoating:	1 - 2 days with SikaGard vapour permeable coatings. 14 days with SikaGard PU or epoxy coatings.

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Prepare and clean all concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed.

MIXING

Icoment 520 levelling mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Stir or shake component A and place into mixer then add component B slowly, mixing continuously. Take 2 litres of water and use a small amount to rinse the component A container and add to the mixture. Continue to mix and gradually add the remaining water until the desired consistency is achieved.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Large and deep holes should be prefilled with the appropriate **Icoment** mortar. It is possible to use **Icoment 520** for initial levelling of 3 - 5 mm thickness by extending the powder component with the addition of 25% pbw quartz sand of granulometry 0.7 - 1.2 mm. This layer should be trowel applied and should not be sponged finished.

Final layer of **Icoment 520** should be used as supplied and sponged to a uniform texture after initial set has taken place. A fine gripping surface, comparable to sand paper should be produced.

In case of large surface, **Icoment 520** can also be applied by specialist spray, whereby application in 2 operations is recommended. During the first spray application holes and cavities must be carefully filled and the surface roughness levelled up. After treatment is as described above.

IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the levelling mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or keep damp.

- * Application of **SikaGard** vapour permeable coatings can be applied after a minimum of 24 hours.
- * Do not add water over recommended dosage.
- * Apply only to prepared, sound substrates.
- * Protect freshly applied material from freezing.

CLEANING

Remove **Icoment 520** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.9 kg/m²/mm (1.9 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Icoment® 530 Cosmetic Mortar

A Cementitious Mortar for Cosmetic Concrete Repairs or Levelling

Technical Data Sheet

DESCRIPTION

Icoment 530 Cosmetic Mortar is a combination of cement reactive minerals and synthetic resin dispersion. It is mixed with O.P.C and water.

USES

- * Levelling concrete surfaces.
- * Repairing minor defects.
- * Filling blowholes and shrinkage cracks.
- * For exterior and interior use.

ADVANTAGES

- * Part of the **Icoment** Concrete Repair System.
- * Pre batched for quality.
- * Just add water and O.P.C.
- * Compatible with **Sika® FerroGard®** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Overcoatable with **SikaGard** coatings.
- * Low shrinkage.
- * Coefficient of thermal expansion similar to concrete.
- * BBA approved.

Technical Data (typical)

Mixed colour:	Grey and white
Mixed wet density:	1.7 kg/litre (additive only)
Application temperature:	+3°C min, +25°C max (Substrate and ambient)
Application thickness per layer:	N/A minimum 2.0 mm maximum
Mix ratio by volume:	Icoment 530 : water : Cement 1 : 0.5 : 1
Overcoating:	1 - 2 days with SikaGard vapour permeable coatings. 14 days with SikaGard PU or epoxy coatings.
'Working time':	Dependent upon cement grade.

All above values are approximate.

CONCRETE SUBSTRATE PREPARATION

Prepare and clean all concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed.

MIXING

Icoment 530 Cosmetic Mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Add cement to **Icoment 530 Cosmetic Mortar** and mix then gradually add the remaining water until the desired consistency is achieved.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

For levelling up purposes **Icoment 530 Cosmetic Mortar** is applied by trowel in accordance with standard practice. Larger defects or holes should be pre-filled prior to overall levelling.

As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge. Alternatively surfaces may be stoned, sanded or ground after curing.

As a blowhole filler **Icoment 530 Cosmetic Mortar** is applied by sponge. Care should be taken to sponge in only sufficient mortar to fill surface blowholes only, in order not to detract from any surface profile such as board mark finish.

IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the levelling mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or keep damp.

* Large/deep repairs may be subject to shrinkage and cracking. This may be minimised by limiting repair volumes and reducing layer thicknesses.

* Do not add water over recommended dosage.

* Apply only to prepared, sound substrates.

* Protect freshly applied material from freezing.

CLEANING

Remove **Icoment 530 Cosmetic Mortar** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

0.8 kg/m²/mm of prepared mix.
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 1 year in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



Handling Precautions

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Epo Cem[®]

SikaGard[®] 720 EpoCem[®]

Epoxy Cement Waterproof Levelling Mortar

Technical Data Sheet

DESCRIPTION

SikaGard 720 EpoCem is a three component epoxy modified cementitious mortar.

USES

- * Levelling concrete, mortar or stone surfaces.
- * Repairing minor defects.
- * Protecting concrete in aggressive environments.
- * A pore sealer.
- * Temporary dpm (+2.0 mm).
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Good chemical resistance.
- * Compatible with **Sika[®] FerroGard[®]** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Waterproof.
- * Overcoatable with **Sika** concrete and floor coatings.
- * Low shrinkage.
- * Vapour permeable.
- * Good mechanical properties.
- * Does not require overcoating.
- * Reduced curing practice.
- * Overcoatable next day.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	2.0 kg/litre
Application temperature:	+5°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	0.5 mm minimum 3.0 mm maximum Small areas up to 5.0 mm

MECHANICAL PROPERTIES

28 days @ 20°C

Compressive strength:	40 N/mm ²
Flexural strength:	9.0 N/mm ²
Bond strength (tensile):	2.5 - 3.5 N/mm ² (Substrate failure)
E-Modulus (static):	12.6 kN/mm ²
Coefficient of thermal expansion:	18 x 10 ⁻⁶ °C ⁻¹
Index of resistance to diffusion of water vapour (μH₂O):	850
Index of resistance to diffusion of carbon dioxide (μCO₂):	34,000
Water absorption coefficient A:	0.03 kg/m ² x h ^{0.5}
'Working time': (@23°C)	40 minutes

All above values are approximate.

SURFACE PREPARATION

Prepare and clean all concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed.

MIXING

Add component A to component B, shake well for approximately 30 seconds. Pour binder (component A+B) into mixing vessel, add component C and mix thoroughly with suitable low-speed electric mixer for 3 minutes.

SikaGard 720 EpoCem should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Prefill localised cavities/pores, minor defects etc with **SikaGard 720 EpoCem** before applying final sealing/levelling coat.

Apply by spatula or trowel and finish with a moist neoprene sponge or brush.

IMPORTANT CONSIDERATIONS

- * Do not add water.
- * Do not finish surface with solvent or water.
- * Apply only to prepared, sound substrates.
- * Protect from drying winds and direct sun.
- * Allow repair mortar to harden between applications.
- * Protect from rain for 24 hours.
- * Protect freshly applied material from freezing.

CLEANING

Remove **SikaGard 720 EpoCem** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.0 kg/m²/mm (2.0 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).



Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Sika MonoTop[®] 620

Cementitious Pore Sealer and Levelling Mortar

Technical Data Sheet

DESCRIPTION

Sika MonoTop 620 is a one component cementitious polymer modified mortar.

USES

- * As a concrete pore sealer/levelling mortar
- * Repairing minor defects.
- * Thin layer render.
- * Repairing pores and honeycombed concrete.
- * For exterior and interior use.

ADVANTAGES

- * Pre bagged for quality.
- * Just add water.
- * Compatible with **Sika[®] FerroGard[®]** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Compatible with **SikaTop[®]** and **MonoTop** mortars.
- * Overcoatable with **SikaGard[®]** coatings.
- * Low shrinkage.
- * Sprayable by wet spray method.
- * Adjustable consistency.

Technical Data (typical)

Mixed colour:	Grey
Mixed wet density:	2.0 kg/litre
Application temperature:	+5°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	1.5 mm minimum 5.0 mm maximum
Mix ratio:	
Hand application:	4.0 - 4.5 litres water per 25 kg bag
Wet spray application:	2.5 - 3.5 litres water per 25 kg bag

MECHANICAL PROPERTIES

28 days @ 20°C

Compressive strength:	30 - 35 N/mm ²
Flexural strength:	4 - 6 N/mm ²
Bond strength (tensile):	1.5 - 2.5 N/mm ² (Substrate failure)
E-Modulus (static):	15.4 kN/mm ²
'Working time' (@23°C):	35 - 45 minutes



All above values are approximate.

SURFACE PREPARATION

Prepare and clean all concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed.

MIXING

Sika MonoTop 620 repair mortar should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Pour water in the correct proportion into the mixing vessel. Add powder while mixing continuously. To avoid entraining too much air, mix using a low speed mixer (max 500 rpm) for minimum 3 minutes. By gradually adding the powder in portions, the desired application consistency can be obtained.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Apply by trowel and rub down with wooden/plastic float or damp sponge.

IMPORTANT CONSIDERATIONS

CURING

It is essential to cure the levelling mortar immediately after application for a minimum of 3 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or other approved method.

- * Do not add water over recommended dosage.
- * Apply only to prepared, sound substrates.
- * Do not add additional water during the surface finishing process as this will cause discolouration and cracking.
- * Protect freshly applied material from freezing.

CLEANING

Remove **Sika MonoTop 620** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.0 kg/m²/mm (2.0 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

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Please consult our Technical Sales Department for further information

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SikaTop[®] 106 ElastoCem

Crack Bridging Cementitious Waterproof Slurry

Technical Data Sheet

DESCRIPTION

SikaTop 106 ElastoCem is a two component cementitious polymer modified pre batched mortar with crack bridging properties.

USES

- * Protecting concrete structures.
- * In splash/spray zones.
- * Provides protection from salt spray.
- * For structures subject to cracking.
- * For exterior and interior use.

ADVANTAGES

- * Pre batched for quality.
- * Crack bridging down to -20°C.
- * Compatible with **Sika[®] FerroGard[®]** corrosion inhibitors.
- * Easy to mix and apply.
- * Excellent bond to concrete.
- * Contains no chloride admixtures.
- * Overcoatable with **SikaGard** crack bridging coatings without subsequent priming.
- * Low shrinkage.
- * Waterproof.
- * Coefficient of thermal expansion similar to concrete.
- * Suitable for drinking water contact.

Technical Data (typical)

Mixed colour:	Cement grey
Mixed wet density:	1.28 kg/litre
Application temperature:	+8°C min, +30°C max (Substrate and ambient)
Application thickness per layer:	0.50 mm minimum 1.00 mm maximum
MECHANICAL PROPERTIES	
Crack bridging: (static 20°C)	1.0 mm @ 2.0 mm thickness
Tensile strength after water submersion:	0.9 N/mm ²
Elongation @ break:	30%
'Working time': (@23°C)	Apply next coat when previous coat has set and will not be disturbed by subsequent application.

Approved for potable water contact.
Details available on request.

All above values are approximate.

SURFACE PREPARATION

Prepare and clean all concrete surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed.

MIXING

SikaTop 106 ElastoCem should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Mix **SikaTop 106 ElastoCem** part A with part B for at least 3 minutes to achieve a uniform consistency.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Pre-fill voids, cavities etc with **Sika EpoCem** or **SikaGard** products.

For the first application, work the **SikaTop 106 ElastoCem** thoroughly into the pre-wetted, slightly damp substrate with a flat bristle brush; apply remaining layers on top and smooth with the brush. Over large areas, **SikaTop 106 ElastoCem** can also be applied mechanically. Wet spraying equipment from eg Putzmeister or Markham is suitable. At least two applications are necessary for a 2 mm thickness.

2.0 mm can be achieved in two coats on horizontal surfaces and three coats on vertical or overhead.

IMPORTANT CONSIDERATIONS

CURING

Protect from rapid drying out. No other precautions necessary.

- * Do not add water.
- * Apply only to prepared, sound substrates.
- * Protect freshly applied material from freezing.

CLEANING

Remove **SikaTop 106 ElastoCem** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.6 kg/m²/mm.
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 1 year in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

Sika



Handling Precautions

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SikaTop® Seal 107

Waterproofing/Damp-Proofing Coating

Technical Data Sheet

DESCRIPTION

SikaTop Seal 107 is a two component polymer modified cementitious waterproof mortar comprising of a liquid polymer and a special cement based mix incorporating admixtures.

USES

- * For interior and exterior waterproofing and damp-proofing concrete, renderings, brickwork and blockwork.
- * For protection of concrete structures against the effects of de icing salts and freeze-thaw.
- * For rigid waterproofing of water tanks, pools, etc.
- * For exterior waterproofing of basement walls in new buildings.
- * Pore/blowhole filling.
- * For waterproofing basement and cellar walls not subject to severe water pressure.
- * For sealing fine "hairline" cracks in concrete structures not subject to movement.
- * Levelling mortar for concrete repair works.

ADVANTAGES

- * Easy to apply by brush or in thin trowel applications.
- * No water required.
- * Pre-measured components.
- * Hand and spray applied.
- * Easy and fast mixing.
- * Excellent adhesion.
- * Protects against concrete carbonation.
- * Protects against water penetration.
- * Suitable for contact with drinking water.
- * Non-corrosive to steel or iron.
- * Overpaintable.
- * BBA approved.

Technical Data (typical)

Mixed colour: Cement grey or white
(Component A: white liquid)
(Component B: grey powder)
(Component C: white powder)

Mixed wet density: 2.0 kg/litre

Application temperature: +8°C min, +35°C max
(Substrate and ambient)

Application thickness per layer: 0.75 mm minimum
1.5 mm maximum
2 coats minimum

MECHANICAL PROPERTIES

28 days @ 20°C RH 55%

3 days 28 days

Compressive strength: 20.0 N/mm² 35 N/mm²

Flexural strength: 6.0 N/mm² 10 N/mm²

Tensile strength: 3.2 N/mm² (water)
(14 days exposure) 4.5 N/mm² (air)

Bond strength: (tensile) 2.0 - 3.0 N/mm²
(Failure in prepared substrate)

E-Modulus (static): 8.4 kN/mm²
(dynamic): 19 kN/mm²

Water vapour resistance: 3.0 MNsg⁻¹ (67 gm/m²/day)

Water penetration: 2 mm = 20 mm of mortar/concrete

Carbonation resistance: 2 mm = 20 cm of mortar/concrete

'Working time': 30 minutes
(@20°C)

Approved for potable water contact.
Details and return to service information available on request.

All above values are approximate.

WATERPROOF/DAMP-PROOFING

Applied in 2 layers to give a total thickness of between 1.5 - 2.0 mm.

Refer to Installation Guide and BBA Detail Sheet 3.

Pore/blowhole filling:

Grit blast to remove all contaminants from within pores/blowholes.

Levelling Mortar:

Prepare and clean all surfaces by suitable mechanical means such as abrasive blast cleaning or equivalent to ensure cement laitance, surface contamination and all existing coatings are removed and all blowholes and honeycombed areas are exposed. The resultant surface finish should be profiled for maximum bond.

MIXING

SikaTop 107 Seal should be mechanically mixed using a forced action mixer or in a clean drum using a drill and paddle. A normal concrete mixer is NOT suitable.

Shake component A before using. Pour approximately ½ component A into mixing container and add component B slowly while mixing until a uniform lump free consistency is achieved.

APPLICATION

The surface should be pre-wetted to a saturated surface dry condition before application.

Pore/blowhole filling:

SikaTop Seal 107 with a 10% reduction of component A to produce a stiff paste consistency. Tightly trowel into the pores of the surfaces.

Levelling Mortar:

Apply the mixed **SikaTop Seal 107** using a fibre brush (available from **Sika Ltd**) applied with horizontal brush strokes

Apply a second coat of **SikaTop Seal 107**, applied with vertical brush strokes as soon as the first coat has hardened sufficiently

Application by trowel may be carried out by a 10% reduction of component A.

- ★ **SikaTop Seal 107** is not a decorative treatment and may display signs of "blooming" after rain or in damp weather conditions. This does not affect the quality of the coating, in any way. Where **SikaTop Seal 107** will be visible after completion of the works, then the off-white colour, which is aesthetically more pleasing, should be used.

Handling Precautions

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IMPORTANT CONSIDERATIONS

CURING

It is essential to cure **SikaTop Seal 107** immediately after application for a minimum of 3 - 5 days to ensure full cement hydration and to minimise cracking. Use polythene sheeting or other approved method.

- ★ **SikaTop Seal 107** does not provide a traffickable finish. Use **Sika® 1 Finishing Mortar** for trafficked surfaces or protect with a **SikaTop 77** or **SikaCem® 810** bonded screed.
- ★ **SikaTop Seal 107** can be overpainted. A solvent based coating must be used.
- ★ 3 coats may be required in areas of severe infiltration.
- ★ Special attention is required to avoid puncturing the waterproof coating with fixings. These should be accommodated either by surface bonding with **SikaDur® 31** or **Sikaflex® 11FC**.
- ★ Do not exceed maximum layer thickness.
- ★ Ensure associated Sika products and construction materials also have DWI approval when used in structures where DWI compliance is required.
- ★ If intercoat period exceeds 24 hours, lightly grit blast surface.
- ★ Apply only to prepared, sound substrates.
- ★ Protect freshly applied material from freezing and rain.
- ★ **SikaTop Seal 107** will not bond to surfaces that have been treated previously with a water repellent.

CLEANING

Remove **SikaTop Seal 107** from tools and equipment with water. Hardened material can only be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

2.0 kg/m²/mm (2.0 kg/litre)
Excluding allowances for loss wastage, surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 6 months in unopened original sealed containers stored in dry warehouse conditions (+5°C - +25°C).

