



# Sika® FerroGard® 901

## Corrosion Inhibitor Admixture for Concrete

### Technical Data Sheet

#### DESCRIPTION

**Sika FerroGard 901** is a liquid concrete admixture based on modified amino alcohol FerroGard technology. It acts as a corrosion protection for rebars embedded in concrete.

#### USES

- \* **Sika FerroGard 901** is especially suitable for reinforced concrete subjected to moderate high risk of corrosion. It specifically protects from chloride induced corrosion.
- \* Fields of application are:—
  - \* Marine structures
  - \* Concrete Roads
  - \* Bridges
  - \* Tunnels
  - \* Retaining Walls
  - \* Industrial Plants
  - \* Parking Decks in MS Car Parks
  - \* Buildings

#### ADVANTAGES

- \* Delays the onset of corrosion
- \* Acts as corrosion protection for embedded steel
- \* Protects concrete from destructive influences of corrosion
- \* Does not negatively affect the properties of fresh or hardened concrete
- \* **Sika FerroGard 901** is a combination of organic and inorganic inhibitors and therefore multifunctional
- \* Can be used with superplasticisers
- \* Extends the service life of structures
- \* Non toxic

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Green
<b>Specific Gravity:</b>	1.06
<b>pH:</b>	10
<b>Chloride Content</b>	Nil

All above values are approximate.



## METHOD OF USE

Integral within the concrete and can be used with a Sikament Superplasticiser to produce an enhanced durable concrete.

## DOSAGE

The dosage rate of **Sika Ferrogard 901** is between 3-4% by wt of cement. If additional admixtures are to be incorporated in the mix, the optimum dosage rate will be found after initial site trials.

## DISPENSING

**Sika FerroGard 901** should be added with the mixing water. Mixing time 1 minute per metre.

## COMPATIBILITY

**Sika Admixtures:** All  
**Cements:** All

## IMPORTANT NOTES

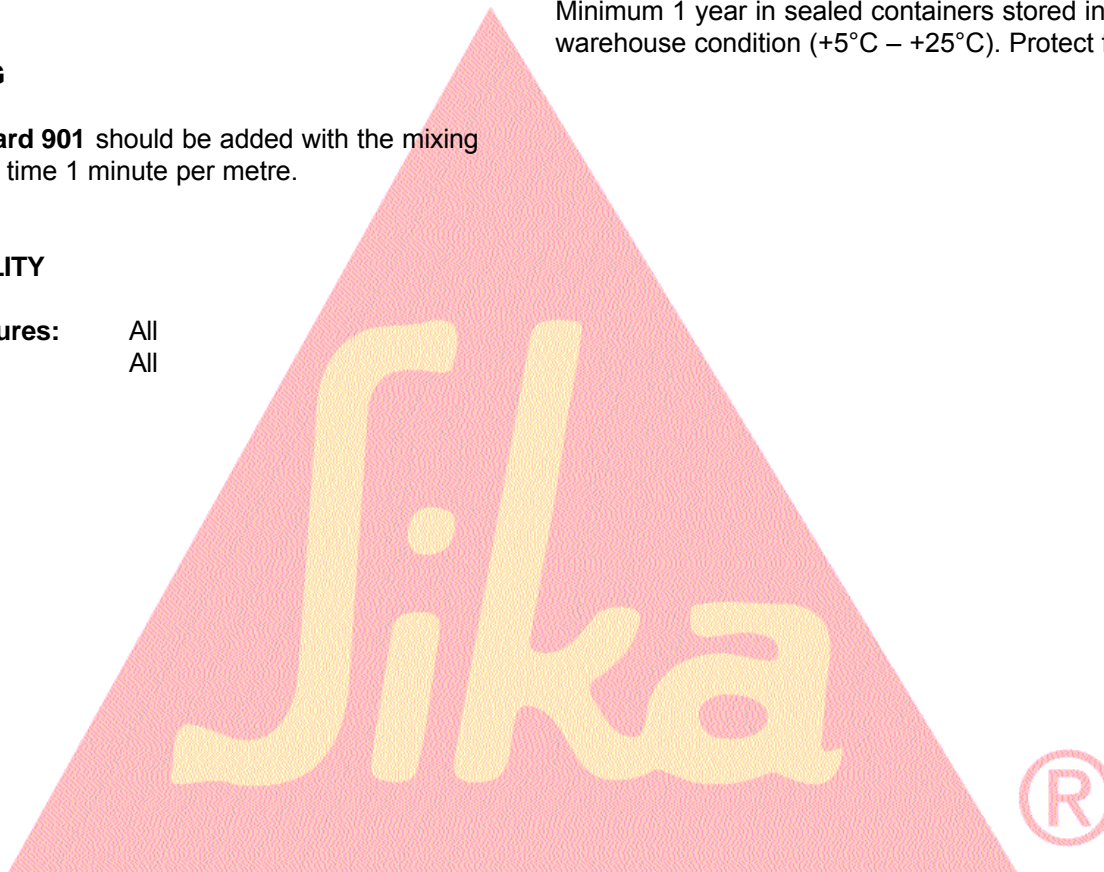
Technical support with regard to dosage and mix design can be provided on request.

## PACKAGING

Refer to latest price list

## STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



### 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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**Please consult our Technical Sales Department for further information**

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# Sika® Colour Enhancer

## Concrete Colour Intensifier

### Technical Data Sheet

#### DESCRIPTION

**Sika Colour Enhancer** is a liquid admixture, enabling the pigments used in the concrete to disperse more efficiently, intensifying the colours obtained.

#### ADVANTAGES

- \* Improved colour intensity – possibility to reduce pigment
- \* Greater degree of impermeability of the concrete
- \* Higher strengths – possibility to save cement and costs
- \* Better compaction leading to closer textured surfaces
- \* Easier compaction leads to faster production and less wear on the production machinery
- \* Reduced incidence of efflorescence
- \* Concrete quality, colour intensity, strength and durability are all enhanced by the use of **Sika Colour Enhancer**
- \* Because it is in liquid form, **Sika Colour Enhancer**, is simple to dispense into the concrete mix

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Light brown
<b>Specific Gravity:</b>	1.035
<b>Chloride Content % w/w:</b>	Nil
<b>Freezing Point °C:</b>	-2°C

All above values are approximate.





**METHOD OF USE**

**Sika Colour Enhancer** should be dispensed with the mix water into semi-dry concrete mixes.

**DOSAGE**

0.4–1.0% by weight of cementitious materials

**PACKAGING**

Refer to latest price list

**STORAGE AND SHELF LIFE**

**Sika Colour Enhancer** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Sika Colour Enhancer** under these conditions is a minimum of 12 months.

Protect from frost.



**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® Control 40

An admixture for minimising drying shrinkage

## Technical Data Sheet

### DESCRIPTION

**Sika Control 40** is a shrinkage-reducing admixture for minimising drying shrinkage. It is normally used in conjunction with a superplasticising admixture. **Sika Control 40** increases the cohesion in the pore structure and reduces the contraction (length change) as the concrete continues to dry out.

### USES

**Sika Control 40** has been especially formulated for use in high performance concrete with strongly reduced drying shrinkage and enhanced durability. **Sika Control 40** is used when the limitation of crack width is important.

### ADVANTAGES

- \* **Sika Control 40** does not change any of the other properties of the fresh and hardened concrete other than a very slight extension of workability retention.
- \* Reductions in drying shrinkage up to 40% are possible.
- \* Compatible with other **Sika** admixtures.
- \* Free of Chlorides or other substances that promote corrosion.

### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Red
<b>Density:</b>	1.01
<b>pH:</b>	10.5
<b>Dosage range:</b>	0.5 - 1.5%

All above values are approximate.



## METHOD OF USE

The admixture should be added to the concrete during the water addition phase of the mixing process. On no account should it be added to the dry cement. Generally, the admixture will have no effect on the amount of water addition, nor will it affect the workability of the concrete produced.

## PACKAGING

**Sika Control 40** is available in 200 litre drums and bulk deliveries in increments of 1,000 litres.

## STORAGE AND SHELF LIFE

The storage life of **Sika Control 40** is a minimum of 12 months in sealed containers. Precautions should be taken to avoid storage in temperatures below freezing point.

The table below details testing on a high flow self-smoothing screed in order to give a comparable shrinkage to a normal workability screed.

Materials	Mix 1	Mix 2	Mix 3	Mix 4	Mix 5
Sand	7.47	7.47	7.47	7.47	7.47
Cement	2.25	2.25	2.25	2.25	2.25
Water	0.40	0.38	0.38	0.38	0.37
Super	0	0.04	0.04	0.04	0.04
Control 40	0	0	0.02	0.03	0.04
Flow (mm)	Dry	110	120	115	190
Plastic Density (Kg/m <sup>3</sup> )	2245	2270	2270	2260	2270
U-Channel Shrinkage 7 day mm/m	0.35	0.50	0.10	0.25	0.20
Prism Shrinkage % 28 days	0.060	0.059	0.047	0.045	0.045

The normal dosage to achieve the benefits shown above is 0.5% on cement content. However, there is no detriment to using up to 1.5% on cement if desirable and required.

### 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® Impress

An admixture permitting the reduction of cement content and manufacturing times in hydraulically pressed products

## Technical Data Sheet

### DESCRIPTION

**Sika Impress** is a one part product for use in hydraulically pressed concrete products. It does not affect the water content of the mix, but makes more efficient use of the cement and speeds up the production cycle of the manufacturing process.

### USES

**Sika Impress** has been especially formulated for use in hydraulically pressed concrete products.

### ADVANTAGES

- \* Cement reductions of 10% - 15% are possible without loss of performance in terms of strength, durability and absorption.
- \* Reduction in pressing times of 15% - 25% enable the reduction of wear and tear, whilst significantly improving the production levels obtained from each press.

### Technical Data (typical)

<b>Colour:</b>	Purple
<b>Density:</b>	1.087
<b>pH:</b>	9.0
<b>Dosage % by Wt of cement:</b>	0.5 - 1.5%

All above values are approximate.



## METHOD OF USE

The admixture should be added to the concrete during the water addition phase of the mixing process. On no account should it be added to the dry cement. Generally, the admixture will have no effect on the amount of water addition, nor will it affect the workability of the concrete produced.

## DOSAGE RANGE

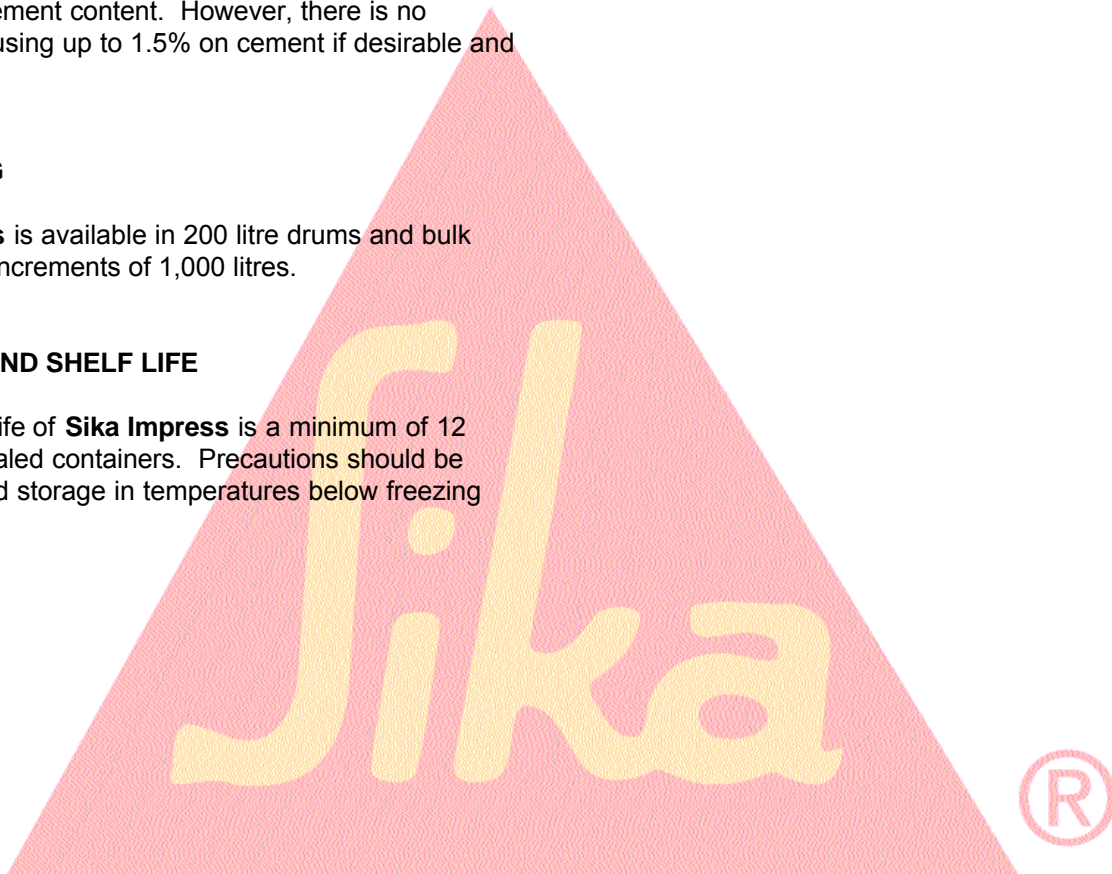
The normal dosage to achieve the benefits shown above is 0.5% on cement content. However, there is no detriment to using up to 1.5% on cement if desirable and required.

## PACKAGING

**Sika Impress** is available in 200 litre drums and bulk deliveries in increments of 1,000 litres.

## STORAGE AND SHELF LIFE

The storage life of **Sika Impress** is a minimum of 12 months in sealed containers. Precautions should be taken to avoid storage in temperatures below freezing point.



### 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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# Sikacrete® Powerpack

## Admixture for Ultra-High Performance Concrete

### Technical Data Sheet

#### DESCRIPTION

**Sikacrete Powerpack** is a modified concrete additive in powder form based on **Sika® Silica Fume Technology**. It is a formulated blend of highly reactive pozzolanic materials and stabilisers designed to produce high quality concrete. **Sikacrete Powerpack** is particularly suitable for chemical resistance, exposure to aggressive atmospheres, abrasion and high strength mixes (in excess of 100 N/mm<sup>2</sup>). It should always be used in conjunction with a superplasticiser from the Sikament range.

#### USES

Concrete exposed to aggressive liquids:–

- \* Farm and food processing industries: silos, floors etc
- \* Chemical industries: floors, chemical fertiliser storage etc
- \* Service Stations: oils, fuels, washing areas etc
- \* Sewage treatment plants: structures, sewers, etc
- \* Foundations: waterproofing structures etc

Concrete exposed to aggressive atmospheres:

- \* Marine constructions
- \* Concrete exposed to air pollution (urban and industrial areas)

Concrete exposed to erosion and abrasion:–

- \* Construction of culverts – dams – concrete subject to heavy traffic or wear and tear

#### ADVANTAGES

**Sikacrete Powerpack** improves wet properties of the concrete, such as cohesion, bond and water efficiency.

In the set concrete the highly active pozzolanic material reacts with the free lime produced by the hydration of the cement to improve strength, density and durability of the concrete.

**Sikacrete Powerpack** will provide the following benefits:–

- \* Increased early strength
- \* Increased final strength
- \* Increased permeability to liquids
- \* Increased impermeability to gases
- \* Reduced chloride penetration
- \* Reduced alkali silica reaction in aggregates
- \* Increased resistance to freeze/thaw cycle
- \* Increased resistance to abrasion

#### Technical Data (typical)

<b>Form:</b>	Powder
<b>Colour:</b>	Dark Grey
<b>Air Entrainment:</b>	Negligible
<b>Chloride Content % w/w:</b>	Nil
<b>Compatibility:</b>	All cement types

All above values are approximate.



## METHOD OF USE

**Sikacrete Powerpack** will only enhance durability if a minimum cement content of 350 kg/m<sup>3</sup> is used. The w/c ratio should not exceed 0.45. If necessary further dosage of superplasticisers can be added. In such cases trials should always be made before full scale production is commenced.

## IMPORTANT CONSIDERATIONS

Concrete with **Sikacrete Powerpack** will not bleed and is, as such, vulnerable to surface water loss. Proper curing is essential.

## DOSAGE

The addition rate of **Sikacrete Powerpack** is generally between 5 and 20% by weight of cement.

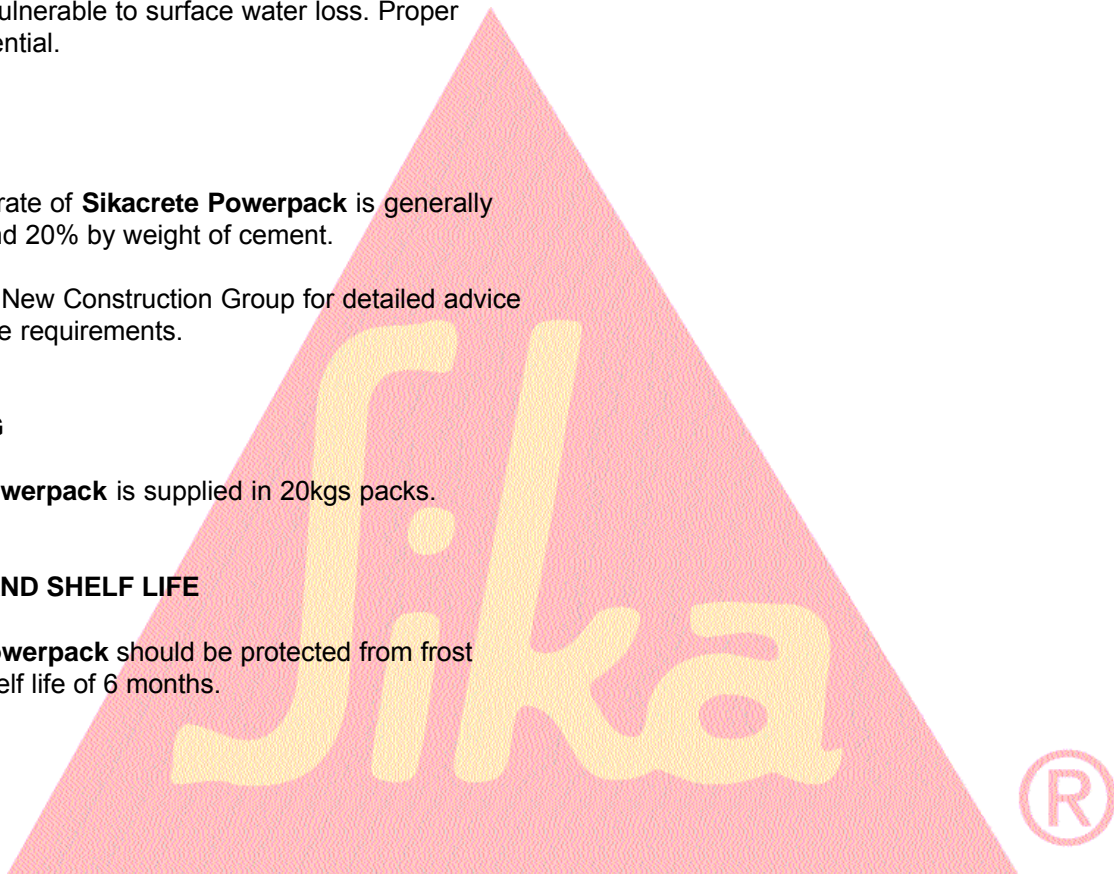
Contact Sika New Construction Group for detailed advice on the dosage requirements.

## PACKAGING

**Sikacrete Powerpack** is supplied in 20kgs packs.

## STORAGE AND SHELF LIFE

**Sikacrete Powerpack** should be protected from frost and has a shelf life of 6 months.



### 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® Mix Improver 105

## concrete Pumping Aid & Finish Improver

### Technical Data Sheet

#### DESCRIPTION

**Sika Mix Improver 105** is a liquid thixotropic pumping aid suitable for all types of concrete.

#### ADVANTAGES

- \* Assists in pumping of lean concrete mixes
- \* Supplied in liquid form for easy dispensing
- \* Reduced segregation and bleeding
- \* Substantially reduced pump pressures allowing faster pumping
- \* Enables the pumping of concrete containing harsh or porous lightweight concrete
- \* Controls workability changes due to aggregate variations
- \* Due to its unique molecular composition **Sika Mix Improver 105** will assist in providing a degree of internal curing to the concrete. **Sika Mix Improver 105** reduces the rate of evaporation of moisture from the capillary structure of concrete, assisting in the complete hydration of the cement in a mix.

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear/Colourless
<b>Specific Gravity:</b>	1.0
<b>Chloride Content % w/w:</b>	Nil (ie less than 0.1% w/w)
<b>Freezing Point °C:</b>	-2°C

All above values are approximate.





**METHOD OF USE**

In order to obtain optimum results **Sika Mix Improver 105** should be dispensed with the mix water.

**DOSAGE**

0.1–1.5% by weight of cementitious materials

**PACKAGING**

Refer to latest price list

**STORAGE AND SHELF LIFE**

**Sika Mix Improver 105** should be stored in dry conditions above 0°C in original sealed containers.

The shelf life of **Sika Mix Improver 105** under these conditions is a minimum of 12 months.

Protect from frost.



**Handling Precautions**

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# Sikaporo 40

## High Dosage Air Entraining and Foaming Agent

### Technical Data Sheet

#### DESCRIPTION

**Sikaporo 40** is an air-entraining agent formulated from modified naturally occurring and synthetic surfactants.

**Sikaporo 40** promotes highly air entrained concrete and via a foam generator, foam concrete.

#### USES

- \* Trench Reinstatement
- \* Voidfill
- \* Lightweight Construction

#### ADVANTAGES

- \* **Sikaporo 40** is manufactured by Sika Limited under strict control from carefully selected raw materials of consistent quality
- \* **Sikaporo 40** can produce highly air entrained mortars or concrete
- \* **Sikaporo 40** via a foam gun can produce foamed concrete and mortar as low as 500 Kg/metre

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear
<b>Specific Gravity:</b>	1.05
<b>Chloride Content % w/w:</b>	Nil
<b>Freezing Point °C:</b>	-1°C

All above values are approximate.



**METHOD OF USE**

Both mixes will be high flow and easily placed.

**DISPENSING**

Standard dispenser for High AE concrete.  
Foam Gun for Foamed mortar/concrete.

**COMPATIBILITY**

**Sika Admixtures:** All  
**Cements:** All

**IMPORTANT NOTES**

A foam gun will produce a greatly enhanced performance.

**PACKAGING**

Refer to latest price list

**STORAGE AND SHELF LIFE**

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



**Handling Precautions**

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# Sikapump<sup>®</sup>

## Liquid Concrete Pumping Aid

### Technical Data Sheet

#### DESCRIPTION

**Sikapump** is a liquid thixotropic pumping aid suitable for all types of concrete.

#### USES

- \* Pump aid for concrete and Mortar
- \* Reduces wear and tear on Equipment

#### ADVANTAGES

- \* Assists in pumping of lean concrete mixes
- \* Supplied in liquid form for easy dispensing
- \* Reduced segregation and bleeding
- \* Substantially reduced pump pressures allowing faster pumping
- \* Enables the pumping of concrete containing harsh or porous lightweight concrete
- \* Controls workability changes due to aggregate variations

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Clear/Green
<b>Specific Gravity:</b>	1.0
<b>Chloride Content % w/w:</b>	Nil
<b>Effect on Setting:</b>	None
<b>Freezing Point °C:</b>	-2°C

All above values are approximate.



**METHOD OF USE**

In order to obtain optimum results **Sikapump** should be dispensed with the mix water.

**DISPENSING**

0.5–1.5% by weight of cementitious materials.

**COMPATIBILITY**

**Sika Admixtures:** All  
**Cements:** All

**IMPORTANT NOTES**

Due to its unique molecular composition **Sikapump** can be used as an integral curing agent. **Sikapump** reduces the rate of evaporation of moisture from the capillary structure of concrete, assisting in the complete hydration of the cement in a mix.

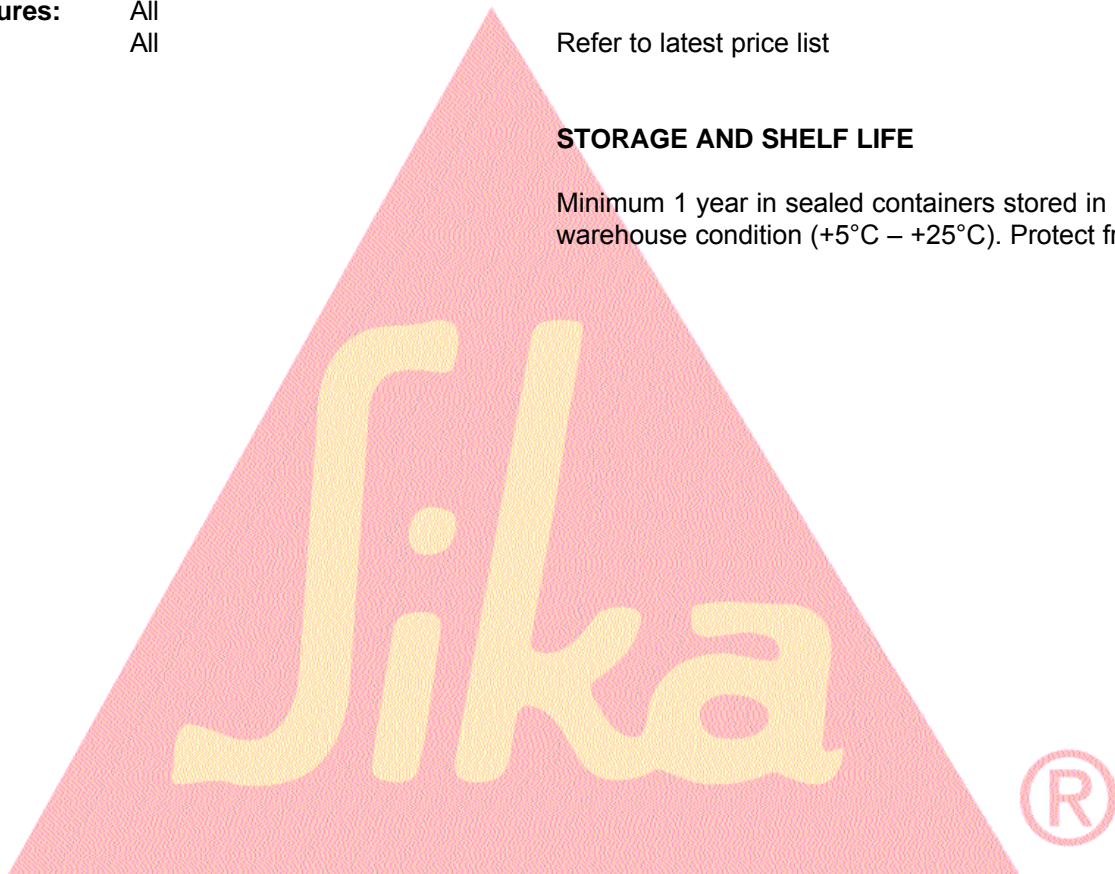
This property also provides benefits in terms of reduced shrinkage.

**PACKAGING**

Refer to latest price list

**STORAGE AND SHELF LIFE**

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



**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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**Please consult our Technical Sales Department for further information**

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Watchmead, Welwyn Garden City, Hertfordshire, AL7 1BQ  
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# Sika<sup>®</sup> UCS Powder

## Stabiliser for Concrete and Grout

### Technical Data Sheet

#### DESCRIPTION

**Sika UCS** is a concrete and mortar admixture used to create thixotropic anti bleed properties in concrete and mortars. Sika UCS prevents the washout of cements and binders in water bearing ground conditions.

#### USES

\* **Sika UCS** can be used in annulus grouts or concrete to be placed underwater. It is compatible with most Sika products for concrete and mortars.

#### ADVANTAGES

- \* Greatly increased cohesion
- \* Extended workable life
- \* Reduced bleed and segregation
- \* Excellent anti washout properties

#### Technical Data (typical)

<b>Form:</b>	Powder
<b>Colour:</b>	Buff
<b>Specific Gravity:</b>	0.33
<b>Dosage % by Wt of Cement:</b>	0.3–1.0%
<b>Chloride Content % w/w:</b>	Nil (less than 0.01% wt/wt)
<b>Freezing Point °C:</b>	-1°C

All above values are approximate.





## METHOD OF USE

**Sika UCS** (concretes or grouts) should be pumped or tremmied into the placement area. Spillage on a wet surface can cause slipperiness. Clean up or wash down any spillage immediately. When used as an anti washout agent for underwater concrete the normal recommendations for mix design should be followed.

## DISPENSING

Depending on the desired effect, type of cement and mix design, the normal dosage is between 0.5% and 1.5% by weight of cement. The powder should be distributed onto the dry aggregates or cement. Thorough mixing is essential and mixing times are normally 50% longer than for a similar mix without **Sika UCS**.

## COMPATIBILITY

**Sika Admixtures:** All  
**Cements:** All

## IMPORTANT NOTES

Please use a Superplasticising admixture from the **Sikament®** range to boost performance

## PACKAGING

Refer to latest price list

## STORAGE AND SHELF LIFE

**Sika UCS** should be stored in dry warehouse conditions between 5°C and 30°C. Under these conditions the product will have a minimum shelf life of 6 months. Damp or wet storage conditions will cause caking and make the product unusable.



### 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® Viscocrete® 5

## Super Plasticiser for Self Compacting Concrete

### Technical Data Sheet

#### DESCRIPTION

**Viscocrete 5** is a super plasticising concrete admixture based on new generation polymers. **Viscocrete 5** is manufactured in the UK by Sika under strict quality control. **Viscocrete 5** can be used to either produce 'flowing concrete' or enable large water reductions to be made for the same workability. **Viscocrete 5**, however, has the advantage of producing very high early strengths and thus makes the material suitable for use in pre-cast concrete applications and in areas where higher workability concrete and fast shutter stripping is required. **Viscocrete 5** can also be used to produce self compacting concrete in combination with a stabiliser.

#### USES

- \* Production of Self compacting Concrete

#### ADVANTAGES

**Viscocrete 5** provides the following benefits:-

- \* As a superplasticiser:
  - \* Substantial improvements in workability without increased water or the risk of segregation
  - \* Set can be extended by increasing dose to achieve slump life required
  - \* Improved concrete density and surface finish
- \* As a water reducer:
  - \* Up to 30% water reducing. 40% increase in 28 day strengths are possible
  - \* Increases frost and water resistant properties of the concrete because of reduced water contents and low permeability
  - \* Extremely high workability
  - \* Little vibration required
  - \* Can replace steam curing
  - \* Faster mould turn round
  - \* Higher strength at all ages
  - \* High durability concrete
  - \* Ultra-high strength concrete

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Straw
<b>Specific Gravity:</b>	1.1
<b>Chloride Content % w/w:</b>	Nil
<b>Freezing Point °C:</b>	-5°C

All above values are approximate.



## METHOD OF USE

In order to obtain the best results, **Viscocrete 5** must be used with specially designed mixes designed for the particular requirements of strength, cost saving or flowing concrete. For maximum dispersion **Viscocrete 5** should be added with the mixing water. On no account should it be added to the dry cement. **Viscocrete 5** can be added at the plant or on site, when added at site the mixer trucks should rotate their drums at maximum revolutions until a uniform mix is achieved.

## DISPENSING

0.4–1.0% BWC for water reduced concrete  
1.0–2.5% BWC for flowing or scc concrete

## COMPATIBILITY

**Sika Admixtures:** All  
**Cements:** All

## IMPORTANT NOTES

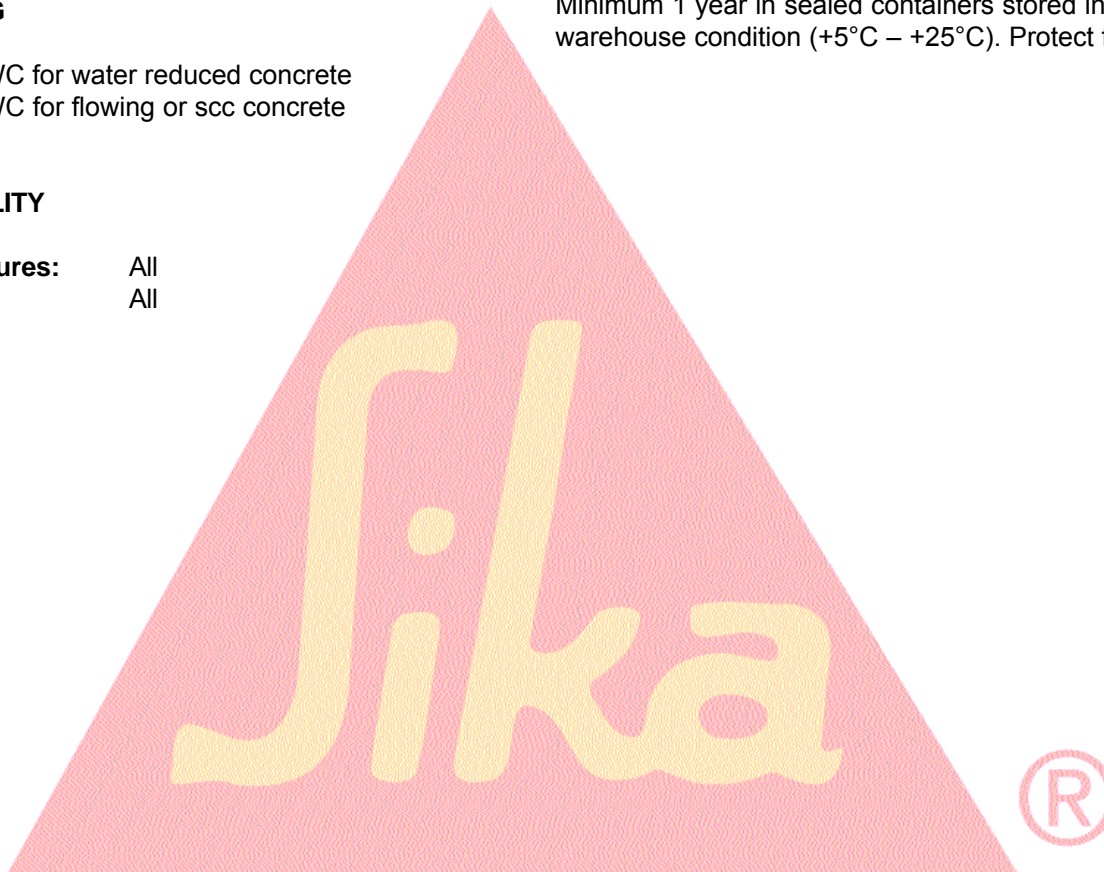
★ Should be used in conjunction with **Sika Viscocrete Stabiliser**

## PACKAGING

Refer to latest price list

## STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



### 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® Viscocrete® 2010

## Super Plasticiser

### Technical Data Sheet

#### DESCRIPTION

**Viscocrete 2010** is a super plasticising concrete admixture based on Melamine-Formaldehyde.

**Viscocrete 2010** is manufactured in the UK by Sika under strict quality control.

**Viscocrete 2010** can be used to either produce 'flowing concrete' or enable large water reductions to be made for the same workability. **Viscocrete 2010** however, has the advantage of producing very high early strengths and thus makes the material suitable for use in pre-cast concrete applications and in areas where higher workability concrete and fast shutter stripping is required. **Viscocrete 2010** can also be used to produce self compacting concrete in combination with a stabiliser.

#### ADVANTAGES

Viscocrete 2010 provides the following benefits:-

As a superplasticiser:

- \* Substantial improvements in workability without increased water or the risk of segregation.
- \* Normal set without retardation, even if accidentally over-dosed.
- \* Improved concrete density and surface finish.

As a water reducer:

- \* Up to 30% water reducing. 40% increase in 28 day strengths are possible.
- \* High strength after 8 hours and double 16 hour strength can be obtained.
- \* Increases frost and water resistant properties of the concrete because of reduced water contents and low permeability.
- \* Extremely high workability
- \* Little vibration required
- \* Can replace steam curing
- \* Faster mould turn round
- \* Higher strength at all ages
- \* High durability concrete
- \* Ultra-high strength concrete
- \* Ideal for power trowelled floors

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific gravity:</b>	1.1
<b>Chloride content % w/w:</b>	Zero (ie less than 0.1% w/w)

All above values are approximate.



## METHOD OF USE

In order to obtain the best results, **Viscocrete 2010** must be used with specially designed mixes designed for the particular requirements of strength, cost saving or flowing concrete. For maximum dispersion **Viscocrete 2010** should be added with the mixing water. On no account should it be added to the dry cement. **Viscocrete 2010** can be added at the plant or on site, when added at site the mixer trucks should rotate their drums at maximum revolutions until a uniform mix is achieved.

## DOSAGE

The dosage rate of **Viscocrete 2010** is best found after initial site trials. As a guide, an addition rate of 0.4-2.0% by weight of cementitious content (0.20-1 litres per 50 kg cementitious) is recommended for 'flowing concrete', 0.6-2% for high strength concrete (0.30-1.0 litres per 50 kg cementitious).

## COMPATIBILITY

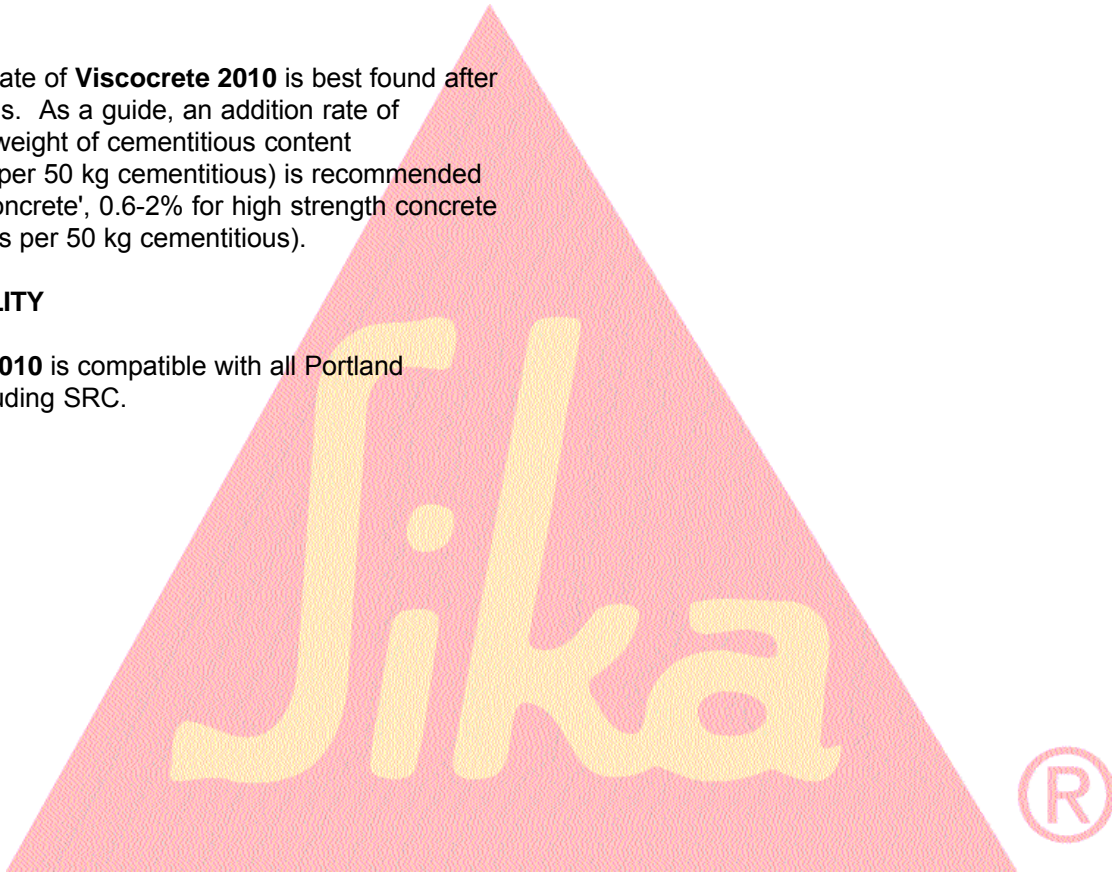
**Viscocrete 2010** is compatible with all Portland cements including SRC.

## PACKAGING

**Viscocrete 2010** is supplied in 25 litre and 200 litre containers. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

**Viscocrete 2010** should be stored in sealed containers between 5°C and 30°C and protected from frost. Under these conditions the shelf life is 1 year minimum.



### 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® Viscocrete® 2015

## Superplasticiser for Self Compacting Concrete

### Technical Data Sheet

#### DESCRIPTION

**Viscocrete 2015** is a super plasticising concrete admixture based on a modified Melamine-Formaldehyde.

**Viscocrete 2015** is manufactured in the UK by Sika under strict quality control. **Viscocrete 2015** can be used to either produce 'flowing concrete' or enable large water reductions to be made for the same workability.

**Viscocrete 2015**, however, has the advantage of producing very high early strengths and thus makes the material suitable for use in pre-cast concrete applications and in areas where higher workability concrete and fast shutter stripping is required. **Viscocrete 2015** can also be used to produce self compacting concrete in combination with a stabiliser.

#### USES

- \* Production of Self compacting Concrete
- \* Ultra high performance Superplasticiser

#### ADVANTAGES

**Viscocrete 2015** provides the following benefits:—

- \* As a superplasticiser:
  - \* Substantial improvements in workability without increased water or the risk of segregation
  - \* Normal set without retardation, even if accidentally over-dosed
  - \* Improved concrete density and surface finish
- \* As a water reducer:
  - \* Up to 30% water reducing. 40% increase in 28 day strengths are possible
  - \* High strength after 8 hours and double 16 hour strength can be obtained
  - \* Increases frost and water resistant properties of the concrete because of reduced water contents and low permeability
  - \* Extremely high workability
  - \* Little vibration required
  - \* Can replace steam curing
  - \* Faster mould turn round
  - \* Higher strength at all ages
  - \* Ultra-high strength concrete

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific Gravity:</b>	1.18
<b>Air Entrainment:</b>	Negligible
<b>Chloride Content % w/w:</b>	Nil (less than 0.1% wt/wt)
<b>Effect on Setting:</b>	Negligible
<b>Freezing Point °C:</b>	-5°C

All above values are approximate.





## METHOD OF USE

In order to obtain the best results, **Viscocrete 2015** must be used with specially designed mixes designed for the particular requirements of strength, cost saving or flowing concrete. For maximum dispersion **Viscocrete 2015** should be added with the mixing water. On no account should it be added to the dry cement. **Viscocrete 2015** can be added at the plant or on site, when added at site the mixer trucks should rotate their drums at maximum revolutions until a uniform mix is achieved.

## DISPENSING

The dosage rate of **Viscocrete 2015** is best found after initial site trials. As a guide, an addition rate of 0.4–2.0% by weight of cementitious content (0.20–1 litres per 50 Kg cementitious) is recommended for 'flowing concrete', 0.6–2% for high strength concrete (0.30–1.0 litres per 50 Kg cementitious).

## EFFECTS OF OVER-DOSING

Little effect unless substantial overdose.

## COMPATIBILITY

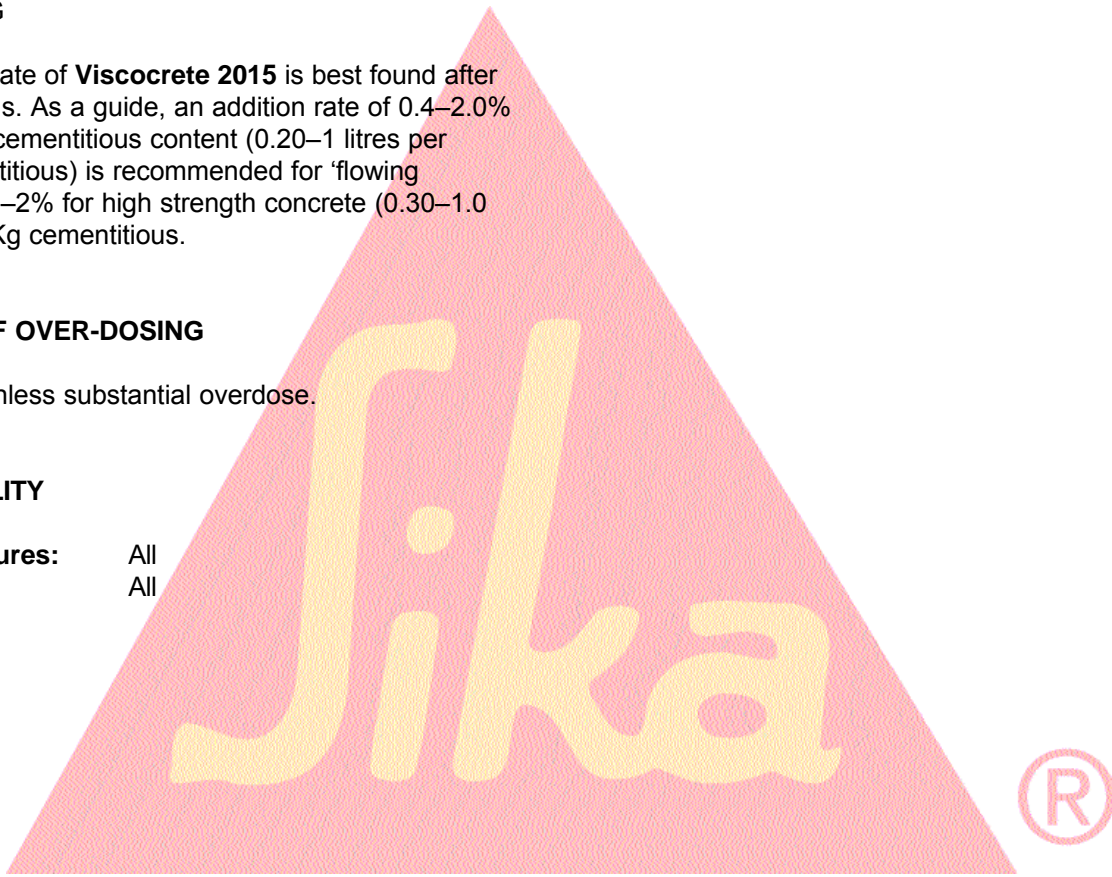
**Sika Admixtures:** All  
**Cements:** All

## PACKAGING

Refer to latest price list

## STORAGE AND SHELF LIFE

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



### 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® Viscocrete® 2200

## Super Plasticiser

### Technical Data Sheet

#### DESCRIPTION

**Viscocrete 2200** is a super plasticising and accelerating concrete admixture based on Melamine-Formaldehyde.

**Viscocrete 2200** is manufactured in the UK by **Sika** under strict quality control. **Viscocrete 2200** can be used to either produce 'flowing concrete' or enable large water reductions to be made for the same workability.

**Viscocrete 2200**, however, has the advantage of producing very high early strengths and thus makes the material suitable for use in pre-cast concrete applications and in areas where higher workability concrete and fast shutter stripping is required.

**Viscocrete 2200** can also produce accelerated self compacting concrete in conjunction with a stabiliser.

#### ADVANTAGES

**Viscocrete 2200** provides the following benefits:-

As a superplasticiser:

- \* Substantial improvements in workability without increased water or the risk of segregation.
- \* Reversion from high workability within 1-2 hours
- \* Improved concrete density and surface finish.

As a water reducer:

- \* Up to 30% water reducing. 40% increase in 28 day strengths are possible.
- \* High strength between 4 hours and 24 hours can be obtained.
- \* Increases frost and water resistant properties of the concrete because of reduced water contents and low permeability.
- \* Extremely high workability
- \* Little vibration required
- \* Can replace steam curing
- \* Faster mould turn round
- \* Higher strength at all ages
- \* High durability concrete
- \* Ultra-high strength concrete
- \* Ideal for power trowelled floors

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific gravity:</b>	1.2
<b>Chloride content % w/w:</b>	Zero (ie less than 0.1% w/w)
<b>Effect on setting:</b>	The concrete will set and lose workability quicker.
<b>Freezing point:</b>	-5°C

All above values are approximate.



## METHOD OF USE

In order to obtain the best results, **Viscocrete 2200** must be used with specially designed mixes designed for the particular requirements of strength, cost saving or flowing concrete. For maximum dispersion **Viscocrete 2200** should be added with the mixing water. On no account should it be added to the dry cement. **Viscocrete 2200** can be added at the plant or on site, when added at site the mixer trucks should rotate their drums at maximum revolutions until a uniform mix is achieved.

## DOSAGE

The dosage rate of **Viscocrete 2200** is best found after initial site trials. As a guide, an addition rate of 0.8-3.0 % by weight of cementitious content (0.40-1.5 litres per 50 kg cementitious) is recommended for 'flowing concrete', 1.0-3.5% for high strength concrete. (0.5 -1.75 litres per 50 kg cementitious.

## COMPATIBILITY

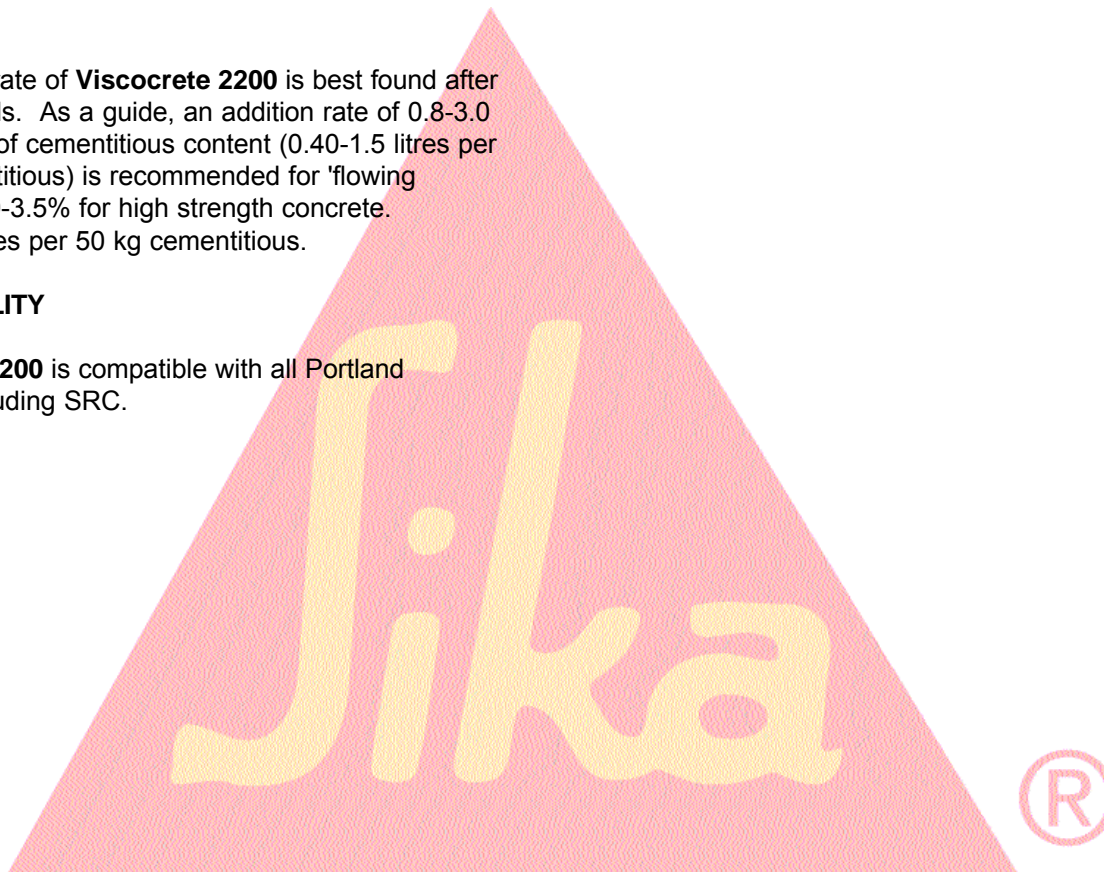
**Viscocrete 2200** is compatible with all Portland cements including SRC.

## PACKAGING

**Viscocrete 2200** is supplied in 25 litre and 200 litre containers. Bulk deliveries can be arranged.

## STORAGE AND SHELF LIFE

**Viscocrete 2200** should be stored in sealed containers between 5°C and 30°C and protected from frost. Under these conditions the shelf life is 1 year minimum.



### 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® Viscocrete® Stabiliser

## Self Compacting Concrete Enhancing Admixture

### Technical Data Sheet

#### DESCRIPTION

**Sika Viscocrete Stabiliser** is a liquid thixotropic self compacting concrete enhancing admixture suitable for all types of **Viscocrete** modified concrete.

#### USES

- \* **Sika Viscocrete Stabiliser** will help achieve self-compacting workabilities when used in conjunction with the **Sika Viscocrete** range of superplasticisers.

#### ADVANTAGES

- \* Assists in stabilising self-compacting concrete mixes
- \* Supplied in liquid form for easy dispensing
- \* Eliminates segregation and bleeding
- \* Improved flow characteristics
- \* Maintains workability
- \* Improves surface finish

#### Technical Data (typical)

<b>Form:</b>	Liquid
<b>Colour:</b>	Brown
<b>Specific Gravity:</b>	1.21
<b>Dosage % by Wt of Cement:</b>	0.1–1.0% wt/wt
<b>Chloride Content % w/w:</b>	Nil (less than 0.1 wt/wt)
<b>Effect on Setting:</b>	Extends slump life
<b>Freezing Point °C:</b>	-5°C

All above values are approximate.



**METHOD OF USE**

**Sika Viscocrete Stabiliser** should be used in conjunction with a Visocrete Superplasticiser.

**DISPENSING**

In order to obtain optimum results **Sika Viscocrete Stabiliser** should be dispensed with the mix water.

**EFFECTS OF OVERDOSING**

Will retard and increase cohesion of mix.

**COMPATIBILITY**

**Sika Admixtures:** All  
**Cements:** All

**IMPORTANT NOTES**

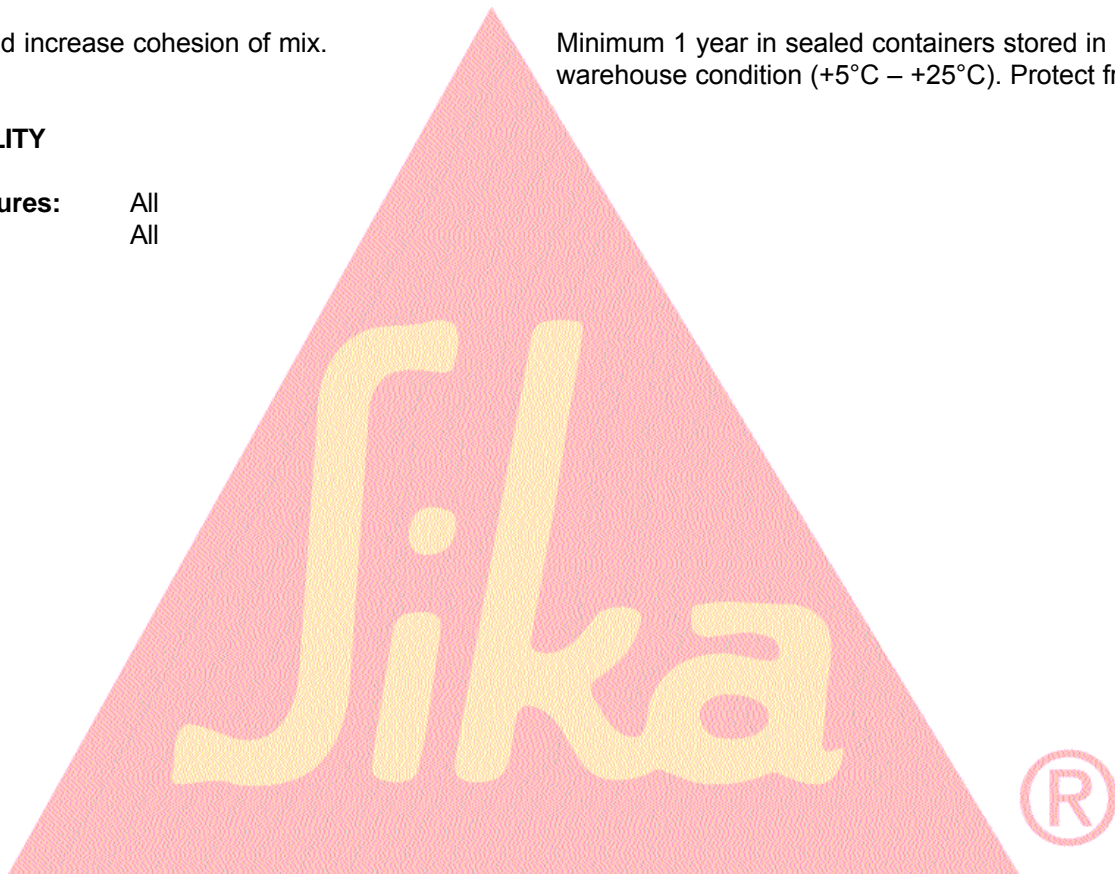
**Sika Viscocrete Stabiliser** requires agitation prior to dispensing; this can be achieved by the use of an airline once per week or immediately prior to use.

**PACKAGING**

Refer to latest price list

**STORAGE AND SHELF LIFE**

Minimum 1 year in sealed containers stored in dry warehouse condition (+5°C – +25°C). Protect from frost.



**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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