



Sika® Rugasol®

Concrete Surface Retarders

Technical Data Sheet

DESCRIPTION

Rugasol surface retarders have been specially designed for producing a mechanical key to construction joints, stop ends, or subsequent rendering applications. **Rugasol** is normally supplied in two standard grades.

- i) **Rugasol MH+** – water based gel-retarder for on site exposed aggregate work.
- i) **Rugasol C** – liquid retarder for horizontal construction joints and surfaces.

Rugasol products will only delay the ultimate hardening and does not “kill” the set of the cement. When used correctly **Rugasol** will not stain concrete, even white concrete. **Rugasol** will not affect the bond of reinforcement to concrete, if accidental splashing occurs it should be thoroughly cleaned with clean water.

USES

- * **Rugasol MH+** provides an efficient, economical method of obtaining a rough bonding surface without the need for hacking, chipping or sand-blasting.
- * **Rugasol MH+** is painted directly on formwork for walls, ceilings, vertical construction joints or any similar formed concrete surface.
- * **Rugasol MH+** dries on the formwork to a tough, water and abrasion resistant film. It is not affected by light foot traffic or by light showers. Forms may be coated before or after erection. Reinforcing steel is placed as usual.
- * **Rugasol MH+** will retard the set of the cement paste by up to 6 mm ($\frac{1}{4}$ ") depth, the depth depends upon the thickness of the coating, the time elapsed before the retarder is removed, the cement content of the concrete and the quantity of water in the mix. The ambient temperature will also affect the depth of retardation.

ADVANTAGES

- * **Rugasol MH+** is a red gel, which is ready for use from the container. It should be stirred before use and must not be diluted.
- * **Rugasol MH+** may be applied to any type of clean form. Apply a heavy coat with a brush or roller and allow to dry (normally 2 to 4 hours). A waiting time of up to 3 days may be permitted prior to placing concrete. Protect surfaces from rain etc during waiting time. Brushes and equipment can be cleaned before the material hardens, using water. No mould oils should be on the forms. Coated surfaces should be protected from strong sunlight.

Technical Data (typical)

Form:	C – Liquid	MH – Gel
Colour:	C – Green	MH – Pink

All above values are approximate.

METHOD OF USE

USES – RUGASOL C

Rugasol C is an easy and economical method of obtaining a mechanical key for 'kicker' joints, renderings and screeds on horizontal surfaces of freshly placed concrete.

Rugasol C eliminates the need for sandblasting, hacking and bush hammering leaving the aggregate unbroken and firmly embedded.

DISPENSING

Approximately 5–10 sq metres per litre.

IMPORTANT NOTES

Rugasol C is a green water like liquid that is ready to use straight from the container. It should be sprayed onto the horizontal concrete surface as soon as the initial 'bleeding' of the concrete has finished. (A large garden spray or watering can is quite suitable.) After the initial cure of the concrete has elapsed, the soft cement paste on the surface can be brushed off the exposed aggregate finish finally washed down with clean water. **Rugasol C** is in use the concrete surface must be protected from rain, dirt etc.

The depth of exposure can vary for different mix designs; however, a depth of up to 4mm is normal. Spray equipment should be washed out after use with hot water.

Keep containers closed when not in use and out of the reach of children. Do not transfer **Rugasol C** into unlabelled containers.

The retarding compound in **Rugasol C** combines with cement at the surface and delays the normal hydration for approximately 1–2 days (high cement contents and temperatures will reduce the retardation). After this retardation has finished, the concrete cures to its full strength.

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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Sika® Separol® E

Concrete Mould Release Agent

Technical Data Sheet

DESCRIPTION

Sika Separol E is a high quality bio-degradable mould release agent for high quality finishes.

USES

- * **Sika Separol E** can be applied to all types of formwork.

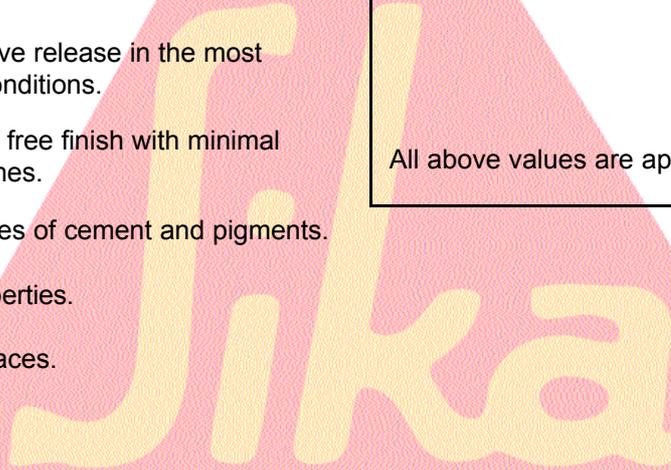
ADVANTAGES

- * Provides a clean positive release in the most difficult and intricate conditions.
- * Leaves a uniform stain free finish with minimal blow holes and blemishes.
- * Compatible with all types of cement and pigments.
- * Excellent anti rust properties.
- * Ideal on all mould surfaces.
- * Ready for use.

Technical Data (typical)

Form:	Liquid
Colour:	Clear
Specific gravity:	0.84 g/ml
Viscosity:	5.5cst
Pour Point:	-57°C

All above values are approximate.



METHOD OF USE

Sika Separol E can be spray, brush or swabbed on to the mould surface. For best results the use of spray equipment is recommended.

IMPORTANT NOTES

✱ Do not over apply, use sparingly.

CLEANING

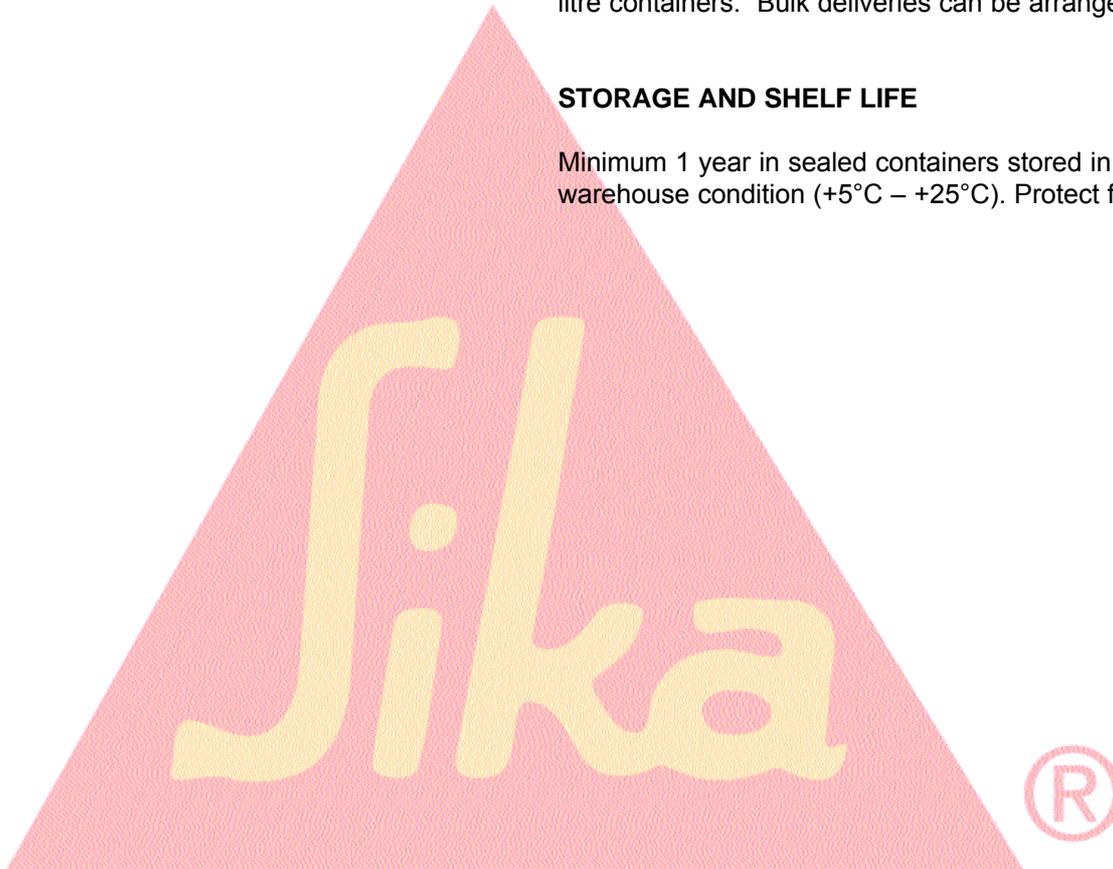
Clean tools after use.

PACKAGING

Sika Separol E is supplied in 25 litre, 200 litre and 1000 litre containers. Bulk deliveries can be arranged.

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® Separol® G

Concrete Mould Oil

Technical Data Sheet

DESCRIPTION

Sika Separol G Concrete Mould Release Agent was specifically developed to enhance the release of concrete moulds quickly and efficiently, by incorporating a combination of pale coloured, highly refined paraffinic base stocks, fortified with specially selected blends of surface active compounds to facilitate the stripping of the moulds, therefore, significantly reducing the incidence of blow holes resulting in an excellent surface finish.

USES

- * **Sika Separol G Concrete Mould Release Agent** has been manufactured and supplied ready for use. In order to maintain its optimum performance it should be applied with an even coating. It was designed to accommodate most types of form work but recommended mainly for wood, plastic or fibre-glass, using a spray, fine haired brush, swab or roller. However, in order to achieve its maximum benefit **Sika Separol G Mould Oil** should be applied by a very fine fog spray in order to allow its highly effective and efficient performance to be maintained. For new unsealed timber form work a pre-treatment is recommended, with a second coating being applied just prior to use.

Technical Data (typical)

Form:	Liquid
Colour:	Pale Amber
Kinematic Viscosity:	22cSt @ 40°C
Relative Density:	0.865 @ 15°C
Closed Flash Point:	180°C
Pour Point:	-10°C

All above values are approximate.

ADVANTAGES

- * Highly mobile liquid which can be used in very fine sprays without clogging the jets.
- * Provides a quick, positive release of the form work, reducing labour costs and possible damage to moulds.
- * Produces no unpleasant odours, even when used in a very fine fog spray.
- * Excellent fluidity at low temperatures allowing economical coverage rates to be obtained.
- * Drastically reduces the incidence of blow-holes, surface blemishes and staining.



METHOD OF USE

Spray equipment is recommended.

IMPORTANT NOTES

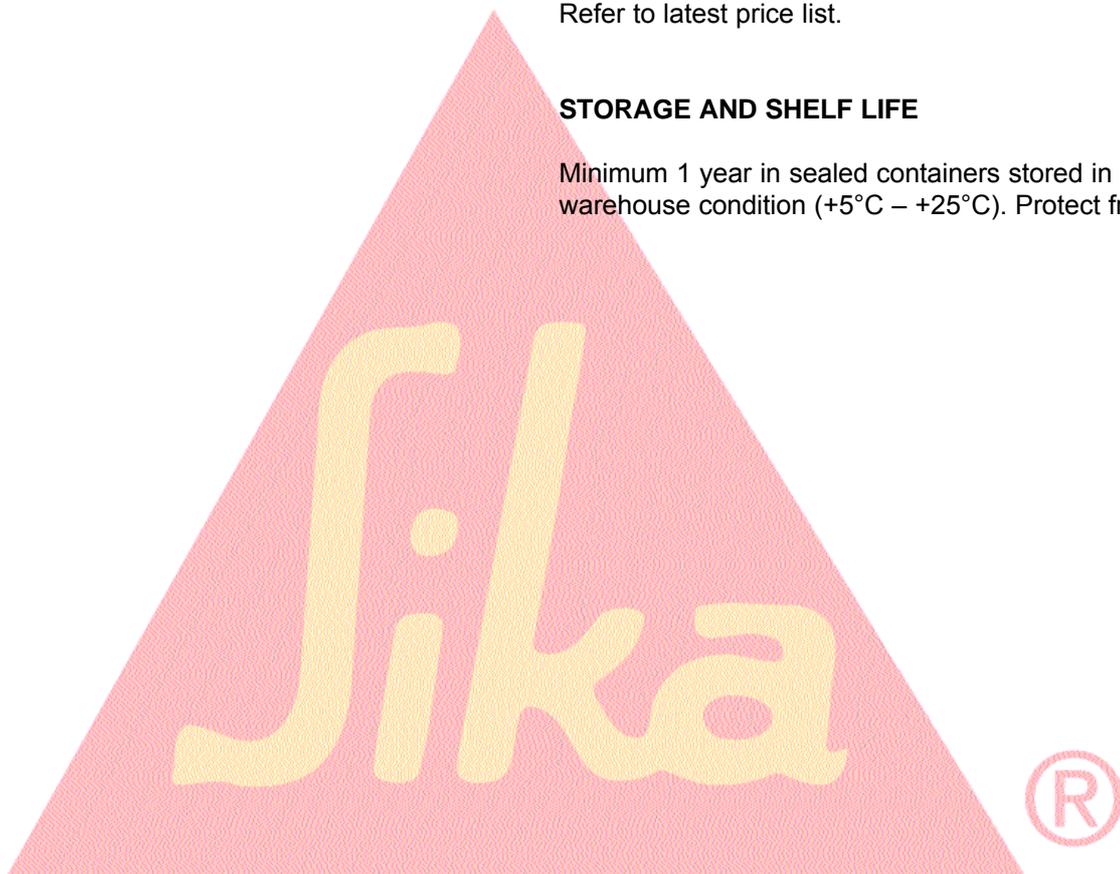
Sika Separol G Concrete Mould Release Agent contains highly refined base oils and should be handled according to good standards of industrial hygiene. If spraying product, care should be taken to minimise inhalation and contact with eyes and ensure adequate ventilation during application. Further detailed information is available 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

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Sika® Separol® S

Concrete Mould Release Agent

Technical Data Sheet

DESCRIPTION

Sika Separol S was specifically developed around a pale coloured, highly refined, paraffinic base oil, coupled with a low aromatic, low odour, hydrocarbon fraction. Fortified with specially selected synthetic fatty esters and naturally occurring fatty compounds, to enhance the surface activity at the interface between the form work and the mould, therefore eliminating the possibility of blowholes or surface damage.

USES

- * **Sika Separol S** has been manufactured and is supplied ready for use and should be applied as evenly as possible to maintain optimum performance. Designed to accommodate all types of form work and could be applied by spray, fine haired brush, swab or roller. However, to benefit from the most economical performance application, the use of a very fine fog spray has provided excellent results. For new unsealed timber forms a pre-treatment is recommended, with a second coat being applied just prior to use.

ADVANTAGES

- * Provides an effective, clean, positive release, reducing labour costs, cleaning time and possible form work damage.
- * Drastically reduces the incidence of blowholes, surface blemishes and staining.
- * Unpleasant odours are eliminated even with the use of a very fine fog spray.
- * Protects timber form work against the ingress of moisture, therefore extending their useful life.
- * Prevents rust and other corrosion forming on metal moulds, supports and other associated equipment.

Technical Data (typical)

Form:	Liquid
Colour:	Pale amber
Relative Density:	0.85 @ 15°C
Closed Flash Point:	80°C
Kinematic Viscosity:	10 cSt @ 40°C
Pour Point:	10°C

All above values are approximate.



METHOD OF USE

Spray Equipment is recommended

IMPORTANT NOTES

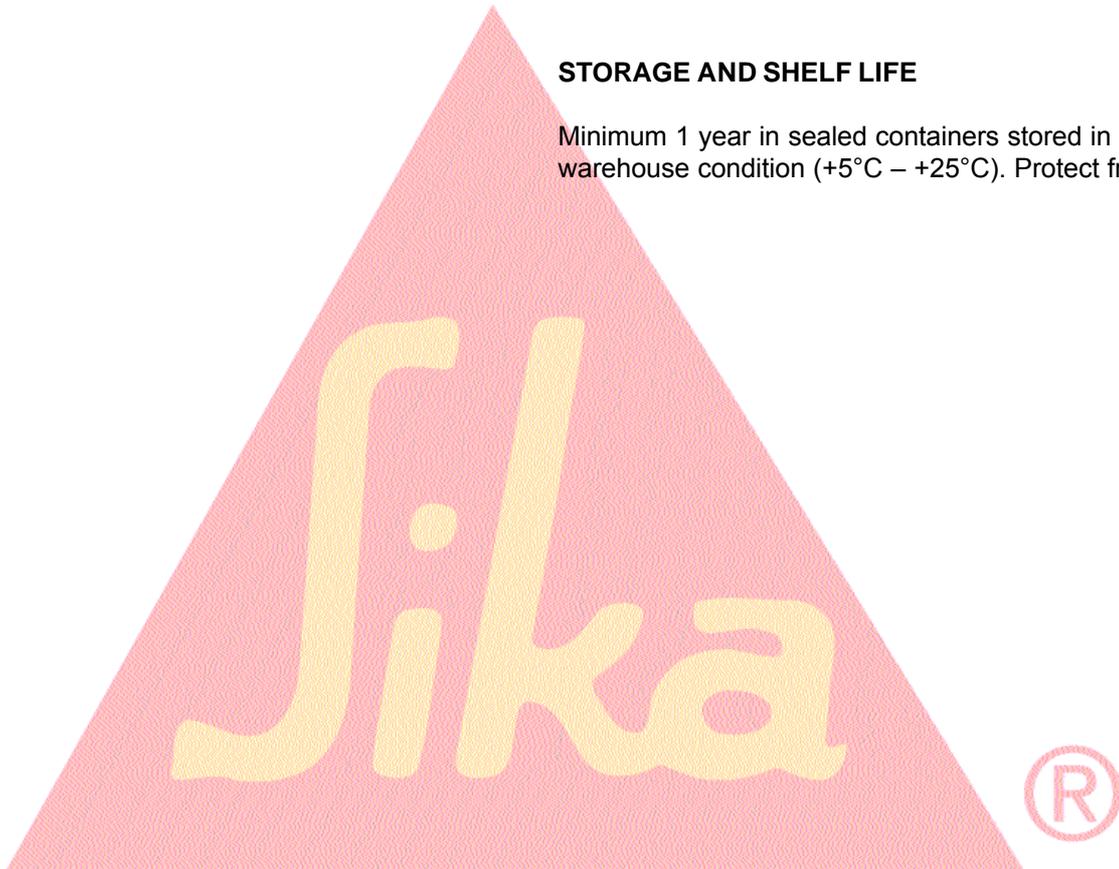
Sika Separol S contains highly refined base oils and should be handled according to good standards of industrial hygiene. If spraying product, care should be taken to minimise inhalation and contact with eyes and ensure adequate ventilation during application. Further detailed information is available on request.

PACKAGING

Refer to latest price list

STORAGE AND SHELF LIFE

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