

PRODUCT DATA SHEET

SikaTard® R

SET RETARDING/STABILISING ADMIXTURE

PRODUCT DESCRIPTION

SikaTard® R is a liquid admixture developed for the control of cement hydration. SikaTard® R retards/stabilises sand/cement masonry mortars and concrete mixes.

USES

SikaTard® R allows the production of retarded/stabilised sand/cement masonry mortars.

SikaTard® R is mainly used for the following applications:

- A wide range of applications where set retarding/stabilising is requested
- In conjunction with Sikanol® 118 to provide masonry mortars for laying brick/blocks manufactured from absorbent materials such as clay, sand-line and concrete.

CHARACTERISTICS / ADVANTAGES

SikaTard® R retards/stabilises the hydration of the cement.

- Strong retardation/stabilising to enable brick/block laying to continue over long periods of time
- Delays the set of the mortar, however the retarding/stabilising effect declines once in place as moisture evaporates and migrates due to the suction of the brick/block enabling setting and curing to occur as normal
- Provides higher ultimate strengths

APPROVALS / STANDARDS

Conforms to the requirements of BS EN 934-3 Table 3 DoP 02 13 02 01 100 0 000253 1088, certified by Factory Production Control Body 0086, Certificate 541325, and provided with the CE mark EN 934-3:2009 is a candidate “harmonized” European Standard and fully takes into account the requirements of the European Commission mandate M128.

Products related to concrete, mortar and grout, given under the EU Construction Products Directive (89/106/EEC) and intended to lead to CE marking. CE-labelled as per Annex ZA.3, table ZA.2 conformity 2+ and fulfil the requirements of the given mandate of the EU Construction Products Directive (89/106/CE).

PRODUCT INFORMATION

| | |
|-----------------------------------|--|
| Chemical Base | Hydrocarboxylate blend |
| Packaging | 200 litre drum, 1000 litre IBC |
| Appearance / Colour | Brown Liquid |
| Shelf Life | 12 months from date of production if stored properly in undamaged unopened, original sealed packaging, in dry conditions at temperatures between +5°C and +25°C. Protect from direct sunlight and frost. |
| Storage Conditions | |
| Density | 1.18 Kg/Litre |
| pH-Value | 8.0 + 1.0 |
| Total Chloride Ion Content | <0.1% |
| Equivalent Sodium Oxide | <4.0% |

APPLICATION INFORMATION

| | |
|---------------------------|---|
| Recommended Dosage | Typically 0.1 - 0.5% by weight of cement for concrete mixes Typically 0.5 – 2% by weight of cement for mortar mixes |
| Compatibility | SikaTard® R may be combined with many other Sika products. Important: Always conduct trials before combining products in specific mixes and contact our Technical Service Department for information and advice about any specific combinations. |
| Dispensing | SikaTard® R is added to the gauging water or added with it into the mortar/concrete mixer. |

APPLICATION INSTRUCTIONS

The standard rules of good mortar/concreting practice, concerning production and placing, are to be followed.

Laboratory trials shall be carried out before concreting on site, especially when using a new mix design or producing new concrete components.

Fresh mortar/concrete must be cured properly and curing applied as early as possible.

Dosage rates to achieve the desired working life will depend on the type of mortar required, ambient temperature, sand quality and the desired workability.

LIMITATIONS

When using SikaTard® R a suitable mix design has to be taken into account and local material sources shall be trialled.

SikaTard® R shall not be added to dry cement.

Overdosing may greatly extended setting time and the possibility of unset mortar in the finished joints.

Saturated bricks/blocks may cause a delay in setting/curing.

Support from our Technical Service Department is recommended.

Frost: If frozen and / or if precipitation has occurred, SikaTard® R may be used after thawing slowly at room temperature followed by intensive remixing.

VALUE BASE

All technical data stated in this Product Data Sheet are

based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

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 accordance with Sika's recommendations. In practice, the differences in materials, sub-

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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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