

Sikagard®-701 W

Alkylalkoxy Siloxane Micro-emulsion Water Repellent Impregnation

Product Description Sikagard®-701 W is a water dilutable reactive alkylalkoxy siloxane based impregnation, supplied as a micro-emulsion concentrate.. Suitable for use in hot and tropical climates

Uses As an impregnation for mineral substrates including concrete and cementitious render, natural and reconstituted stone, aerated concrete, brickwork (non vitrified brick), fibre cement, mineral paint coatings etc. against driving rain and water ingress.

Characteristics / Advantages

- Excellent penetration
- Economic and easy to use
- Reduces capillary water absorption, protection against driving rain and water ingress on vertical areas
- Reduces absorption of water borne contaminants (e.g. de-icing salts, chlorides, etc.)
- No change in water vapour permeability
- Non film forming
- Water dilutable
- Low packaging waste / disposal as supplied as a concentrate

Tests

Approvals / Standards Conforms to the requirements of EMPA No. 147 006-C (resistance to freeze-thaw cycles and de-icing salts) and LPM A-13719-4 (water absorption, diffusion, alkali resistance).

Product Data

Form

Appearance / Colour Yellowish liquid.

Packaging Boxes containing 6 bottles of 1 kg.

Storage

Storage Conditions / Shelf Life 12 months from date of production if stored in undamaged and unopened, original sealed packaging, in cool and dry conditions.

Technical Data

Chemical Base Water dilutable siloxane.

Density (at +20°C) ~ 1.000 kg/l

Flash Point ~ 27°C



System Information

System Structure 2 - 3 x **Sikagard®-701 W**.

Application Details

Consumption Dependent on the absorbency of the substrate and the required penetration depth, ~ 150 g/m² (diluted) per coat. Apply 2 - 3 coats "wet on wet".

Substrate Quality Free of dust, dirt, oil, efflorescence and existing paint coatings. Cracks in concrete of more than 200 microns must be repaired prior to application of the hydrophobic treatment.

Substrate Preparation Cleaning is best achieved by brushing with suitable detergents or by light blast cleaning or steam cleaning etc. Best results are obtained on dry, very absorbent substrates. The substrate must look dry with no damp patches.

Application Conditions / Limitations

Substrate Temperature +8°C min. / +30°C max.

Ambient Temperature +8°C min. / +30°C max.

Substrate Humidity 5% max.

Application Instructions

Mixing Thinning:
Sikagard®-701 W is thinned with clean water at the rate of 1 : 9 and then thoroughly stirred.

Application Method / Tools **Sikagard®-701 W** is applied using low pressure spray, brush or roller, in a single pass, working from top to bottom taking care not to let the product run. Apply subsequent coats "wet on wet".

Cleaning of Tools Clean all tools and application equipment with clean water immediately after use. Hardened / cured material can only be mechanically removed.

Potlife Only thin as much material as can be used in one working day.

Waiting Time / Overcoatability Can be over coated with water / solvent based polymer paints - contact the paint manufacturer for details.
Sikagard®-701 W can be used as a water based primer under Sikagard® or SikaColor® Emulsion or solvent based coating. Penetration of water is thus prevented even if the top coat is damaged.
Waiting time: minimum 5 hours, maximum 1 week.

Notes on Application / Limitations Minimum age of concrete or mortar: at least 4 weeks.
Building components (e.g. window frames) which still need to be painted must be protected from contact with **Sikagard®-701 W**.
Test on a sample surface before use.
Cannot be over coated with limewash or cement paint.
The water repellent effect is not fully effective on horizontal surfaces.

Curing Details

Curing Treatment **Sikagard®-701 W** does not require any special curing but must be protected from rain for at least 3 hours at +20°C.

Notes 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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should 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, 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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