

PRODUCT DATA SHEET

SikaPaver[®]-702

(formerly MCast 702)

Water-repellent for the protection of Manufactured Concrete Products

DESCRIPTION

SikaPaver[®]-702 is a single component, clear when cured, deeply penetrating water-repellent specially developed for semi-dry concrete mixes. The product is suitable for the production of kerbstones, paving blocks and slabs.

SikaPaver[®]-702 helps in protecting both vertical and horizontal concrete surfaces from deterioration by atmospheric pollution, water and salt attack. Suitable for use in hot and tropical climatic conditions.

USES

SikaPaver[®]-702 is designed to be used in the following Manufacturing Concrete Products:

- Kerbstones
- Blocks
- Slabs

FEATURES

- Provides a longlasting protection: SikaPaver[®]-702 penetrates deep into the surface acting as a water repellent that protects from water, salts (chloride ion), atmospheric pollution and concrete deterioration
- Improves the aesthetics by reducing efflorescence, algae growth and dirt buildup
- Generally, surface appearance remains unchanged
- Reduces volatile organic emissions into the atmosphere
- Provides a safer working environment for the applicator by minimising health hazards associated with organic solvents
- Ready to use; no dilution on site needed
- Can be applied to damp substrates
- Application equipment easily cleaned with water
- Wastage is minimised and coverage is maximised

CERTIFICATES AND TEST REPORTS

SikaPaver[®]-702 follows the requirements of EN 1504-2 1.1/2.1/8.1

PRODUCT INFORMATION

Composition	Silane/Siloxane chemical composition
Packaging	Drums and 1,000 L IBC (Intermediate bulk container)
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5°C and +50°C. Protect from direct sunlight.
Appearance and colour	White liquid
Density	~1 kg/l (+25°C)

APPLICATION INFORMATION

Consumption	3–5 m ² /L for normally absorbant substrate. This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, surface finish, variations in level and wastage etc..
Material temperature	+5°C min. / +40°C max. (during application)
Ambient air temperature	+5°C min. / +40°C max. (during application)

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

TECHNICAL DATA - TYPICAL PROPERTIES

Non-volatile content	≥ 5%
Moisture vapour transmission	≤ 220 g/m ² /day
Reduction in absorption (BS 1881-122:2011)	≥ 80%
Reduction in Cl ion Penetration (BS 1881-124:1988)	≥ 90%
Reduction in absorption (whole system)	≥ 95%
Adhesion on concrete	≥ 2Mpa (90% failure on concrete surface)

IMPORTANT CONSIDERATIONS

- SikaPaver®-702 will leave a visible residue on non-porous materials such as glass, metal and painted surfaces. When cured, dried materials can be removed by scraping with a metal blade.
- For Kerbs, as soon as the units have been taken out of the curing room and thoroughly surface dried to a depth of at least 6mm, 2 coats of SikaPaver®-702 shall be brush applied. When the first coat has dried, the second coat of water-repellent compound shall be applied.
- If there are strict aesthetic requirements, it is recommended to perform preliminary tests as on some substrates a slight darkening of the surfaces may result.
- Building components not to be coated (example aluminium frames, windows etc.) need to be protected from contact with SikaPaver®-702. In case of splashes, clean immediately using an additional solvent if necessary.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Concrete surfaces should be cleaned of all sand, surface dust, dirt, oil, grease, chemical films, coatings and other contaminants before application. Surface to be treated can be slightly damp or dry. SikaPaver®-702 should not be applied if standing water is visible on the surface to be treated.

MIXING

SikaPaver®-702 is supplied ready for use and should not be thinned. Stir material thoroughly before and during application

APPLICATION

SikaPaver®-702 is applied by using low pressure spray, brush or roller, working from bottom up, taking care not to let the product run. On horizontal application, avoid ponding on the surface. Test a small area of the concrete surface before starting general application to assure desired results and coverage rates.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001, 45001 – SGS
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-Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS
-Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV
-Sika MB Construction Chemicals LLC
-Sika Construction Chemicals for Manufacturing LLC
-Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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