BUILDING TRUST

PRODUCT DATA SHEET

SikaLatex®-600

(formerly MSeal 600)

Multi-Purpose liquid polymer additive for cement mixes

PRODUCT DESCRIPTION

SikaLatex®-600 is a special formulation of acrylic polymers and modifiers designed for use as an additive for cement mixes and other highly-alkaline building materials.
SikaLatex®-600 is a milky-white liquid with a viscosity slightly higher than that of water.

USES

In a bonding slurry coat:
- To adhere new concrete to old.
- To bond thin polymer screeds or toppings to substrate.
- To bond screeds to dense substrates.

For dry screeds:
- To provide an economic-wearing floor surface where a higher resistance to wear, abrasion, impact, dusting is required.
- To improve resistance to mild chemicals.

In a render key coat:
- To provide a mechanical key prior to rendering on dense or smooth materials such as concrete, concrete block, concrete brick, engineering bricks and dense clay blocks.
- To provide a keyed surface of uniform suction on surfaces with varying absorption rates.

For modifying renders:
- To allow effective use of thinner renders.
- To reduce shrinkage and dusting.
- To increase durability, flexibility, and weatherproofing.

For patching and repair mortars:
- For internal and external repairs to floors, roads, paths, etc.
- For repair to spalled and damaged concrete.

As an admixture for Sika products:
- SikaLatex®-600 is a component recommended for use with several Sika products.

Contact your local Sika representative regarding any application required not mentioned here.

CHARACTERISTICS / ADVANTAGES

- Improves the workability of cement mixes, aiding ease of application.
- Improves all physical characteristics of cement mixes, therefore increasing resistance to wear and weather.
- Unaffected by ultraviolet light or contact with water, providing good durability under all conditions.
- Non-hazardous, non-corrosive and non-combustible.

PRODUCT INFORMATION

Packaging	SikaLatex®-600 is available in 20 L plastic jerry cans.
Appearance / Colour	Milky white liquid
Shelf Life	12 months after date of production in unopened original packaging, if stored at below mentioned storage conditions.
Storage Conditions	SikaLatex®-600 should be stored under cover and clear of the ground. Protect from freezing and avoid permanent storage over +30 °C.
Solid content by mass	28 %

Specific gravity	1.0 kg/L

TECHNICAL INFORMATION

Specific Advice	Maximum allowed dilution: 1 : 3 by volume.

Mortar mix design

Use in	Mix-Ratio by volume (SikaLatex®-600 / clean water)
Bonding slurry coats	Undiluted
Key coats	1 : 1
Renders	1 : 3
Repair mortars	1 : 1
Dry screeds	1 : 2

Indicative performance of mortar mix

Technical data of sand/cement mortar mixed with	water only	SikaLatex®-600 + water (1:1 by volume)
Compressive Strength		
after 7 days	26 N/mm²	28 N/mm²
after 28 days	28 N/mm²	30 N/mm²
Flexural Strength		
after 28 days	7 N/mm²	12 N/mm²
Tensile Bond		
after 7 days	1.5 N/mm²	2.3 N/mm²
after 28 days	1.5 N/mm²	2.3 N/mm²
Shear Strength		
after 7 days	0.4 N/mm²	0.5 N/mm²
after 28 days	0.5 N/mm²	1.1 N/mm²

Note: Typical values; all tests under temperature-controlled conditions at +21 °C and approx. 60 % rel. humidity.

APPLICATION INFORMATION

Consumption	Depends on the mix ratio used.
Product Temperature	+5 °C to +35 °C
Ambient Air Temperature	+5 °C to +35 °C
Substrate Temperature	+5 °C to +35 °C

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.

LIMITATIONS

- Do not apply mixes modified with SikaLatex®-600 at temperatures below +5 °C or expected to fall below +5 °C within 24 hours.
- Do not apply mixes modified with SikaLatex®-600 at temperatures over +35 °C.
- Avoid application in direct sunlight.
- Do not use mixes modified with SikaLatex®-600 where the application is likely to be in prolonged contact with hydrocarbons such as fuel oils, diesel oil and petrol.

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 PREPARATION

All substrates (new and old) must be structurally sound, dry, free of laitance and loose particles and clean of oil, grease, rubber skid marks, paint stains and other adhesion impairing contaminants.

MIXING

In a bonding slurry coat:
Blend ordinary Portland cement into neat SikaLatex®-600 and mix with a trowel or a suitable mixer attachment in a slow speed drill (400-600 RPM) until a smooth lump-free slurry is produced. Do not overmix.
Dry screeds:
Mix 1 part of cement with 3 parts of screeding sand. Prepare mixing liquid comprising 1 part of SikaLatex®-600 to 2 parts of water.
Mix the materials together to the required consistency. Do not overmix.
In a render key coat:
Dry mix 2 parts of coarse sharp sand to 1 part of ordinary Portland cement. Add the mixing liquid consisting of equal parts SikaLatex®-600 and water until a slurry consistency is obtained. Do not overmix.
For modifying renders:
Dry mix 1 part of cement with 2 parts of render sand (0 - 4 mm). Prepare mixing liquid of 1 part of SikaLatex®-600 to 3 parts of water.
For larger areas use a forced-action mixer of the rotating drum, pan or trough type, adding the dry-mixed mortar to the mixing liquid until a cohesive mass suitable for trowel application is obtained.
Small quantities can be thoroughly mixed by a suitable paddle attached to a powerful electric drill. Do not overmix.
For patching and repair mortars
Dry mix 3 parts of clean sharp sand (0 - 6 mm) with 1 part of ordinary Portland cement. Prepare the mixing liquid by blending equal parts of SikaLatex®-600 and water together.
For large areas, use a forced-action mixer of the rotating drum, pan or trough type adding the dry-mixed mortar to the mixing liquid until a dry consistency is obtained.
Small quantities can be thoroughly mixed by a suitable paddle attached to a powerful electric drill. Do not overmix.

APPLICATION

Bonding slurry coat:
Apply the mix only to a clean, prepared, sound surface which has been pre-dampened but has no free-standing water. Work the slurry well into the surface with a brush or broom.
Do not allow the slurry to dry ou - apply the mortar or concrete whilst the slurry is still wet.
Dry screed:
Apply and cure screed according to local specifications and site practice. SikaLatex®-600 will aid the curing of the screed; prevent drying shrinkage and stop dusting.
Render key coat:
Ensure that the surface has been prepared to a clean, sound condition free from any surface coating, algae, foreign matters or any other product which could affect the bond adversely. The slurry is brushed vigorously into the pre-dampened surface after removing any free- standing water. All pores and voids are filled with the mix and stippled or heavily textured.
The best results are obtained with a broom. Leave to harden overnight (at +20°C) before rendering.
Render:
Always apply the mix to a prepared surface, preferentially a render key coat, which has been dampened but has no free-standing water. Apply the mix using standard plastering techniques; avoid exceeding the maximum designed depth of application. For a smooth finish, the best results are obtained with a stainless steel trowel.
Do not over trowel.
Patching and repair mortar:
Apply the bonding slurry as described earlier to the prepared patch or repair areas. If there is steel reinforcement in the repair, this must also be coated with the slurry. Never allow the slurry to dry out. The mixed material must be firmly pushed into place and compacted with a trowel or float in layers not exceeding 20 mm. Successive layers can be placed once the initial set has taken place. This mix is not suitable for feather edging since the minimum recommended depth required is 10 mm.

CURING

The best results are obtained from mortars modified with SikaLatex®-600 if they are damp-cured for 24 hours and allowed to dry out gradually.
Do not use curing compounds!

CLEANING OF TOOLS

Tools can be cleaned with water while still wet. Once the material has cured, it can only be removed mechanically.

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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