

PRODUCT DATA SHEET

SikaLatex[®] Max

MODIFIED EMULSION IMPROVER FOR MORTARS

DESCRIPTION

SikaLatex[®] Max is a modified formulated mortar admixture for wide range construction applications, APEO free. It is a synthetic resin aqueous dispersion in the form of concentrated milky liquid with rich texture, used mainly to increase mortar's adhesion to the substrate and improve its properties.

USES

SikaLatex[®] Max is used in concrete and mortar mixes for:

- Production of adhesion mortars (bonding slurries)
- Thin & intermediate layer mortars for finishing
- Plaster production, renderings
- Repair mortars in concrete
- Flooring mortars
- All types of mortars in construction

CHARACTERISTICS / ADVANTAGES

- According to REACH regulation (APEO free)
- Improves the adhesion of mortars on all substrates, even on smooth ones (concrete, stone, brick, ferrous metals, glass and ceramics)
- Produces mortars that are easily workable due to the modified texture
- Limits the risk of cracking and shrinkage
- Makes mortars plastic and easily applicable
- Improves waterproofing ability
- Improves surface hardness
- Reduces wear and dusting
- Produces mortars with increased durability against abrasion
- Improves chemical resistance

PRODUCT INFORMATION

Composition	Improved styrene resins
Packaging	1, 5 and 20 kg pails 210 kg drums 1000 kg IBC
Appearance / Colour	Emulsion, white
Shelf life	18 months from date of production
Storage conditions	Store in undamaged and unopened, original sealed packaging, in dry conditions and protected from direct sunlight and frost.
Density	~ 1,0 kg/l (at +20 °C)
pH-Value	8,0 – 11,0 (at +20 °C)

TECHNICAL INFORMATION

Mortar Mix Design

Slurry

Dry ingredients:

- 1 part per volume cement
- 1 part per volume sand

Dilution of SikaLatex® Max with water:

- 1:1 up to 1:3 per volume SikaLatex® Max

Filling mortars

Dry ingredients:

- 1 part per volume cement
- 3 parts per volume sand

Dilution of SikaLatex® Max with water:

- 1:2 up to 1:3 by volume SikaLatex® Max for watertight mortars
- 1:2 up to 1:4 by volume SikaLatex® Max for stone pointing mortar
- 1:4 up to 1:7 by volume of SikaLatex® Max for general application

Renderings

Renderings consist of different types of layers:

- Slurry, as an adhesion layer, in order to ensure mechanical anchoring with the following layers.
- Thicker mortar layer
- Finishing (thinner) mortar layer

Apply a **slurry** mortar (see above the proposed mix design). Afterwards, apply the **thicker layer** using dilution of SikaLatex® Max with water:

- 1:4 up to 1:5 per volume SikaLatex® Max

Finish the rendering by applying the **thinner final layer**.

APPLICATION INFORMATION

Recommended Dosage

In all cases (see Mortar Mix Design), mix the dry ingredients together and then add the dilution of SikaLatex® Max with water in the required quantity, until a homogeneous mix with the demanded workability is produced.

Consumption

In general, 5-10% by weight of cement depending on the application.

APPLICATION INSTRUCTIONS

APPLICATION METHOD / TOOLS

Step 1: Add the product to the mixing water at the specified dilution rate per application type.

Step 2: Mix the dry ingredients together, add the dilution in the required quantity while mixing for at least 90 seconds, until a homogeneous mix with the demanded workability is produced.

IMPORTANT CONSIDERATIONS

- It is not recommended to use SikaLatex® Max dilution with water to increase the adhesion, without adding the recommended ratio of cement: sand.
- In mortars produced with SikaLatex® Max apply the same general rules as in normal mortars, regarding application and curing.
- SikaLatex® Max should not be added to the dry mix of cement and aggregates.
- The pre-mentioned mixing ratios are indicative. SikaLatex® Max consumption may vary depending on the application.
- Prior to all applications, suitability tests must be performed, since production of the best mixture depends on various parameters, such as sand quality, temperature, humidity, etc.
- Standard rules regarding production and application

of the mortar are to be followed. Refer to relevant standards. Fresh mortar must be properly cured. Protect it during curing from frost and premature drying.

BASIS OF PRODUCT DATA

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.

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 Safety Data Sheet (SDS) 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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