BUILDING TRUST

PRODUCT DATA SHEET

SikaLatex® MY

WATER RESISTANT BONDING AGENT AND MORTAR ADDITIVE

DESCRIPTION

Formally known as SikaLatex®. SikaLatex® MY is a modified styrene butadiene emulsion to be mixed with cement (neat) or cement / sand mortar for improved adhesion and water resistance properties.

USES

- For higher strength floor screeds with less 'dusting', improved flexibility and resistance to cracking
- For wear resistant floor toppings in water treatment works, sewage systems, etc. together with Sika®-1 System
- As an additive to repair mortars for patching and filling
- As a bonding agent for rendering, tile fixing and masonry jointing mortars, etc.
- As a bonding grout between old and new concrete, as well as in construction joints

CHARACTERISTICS / ADVANTAGES

- Increases adhesion, flexural and tensile strength
- Improves abrasion resistance (less dusting)
- Reduces water permeability
- Increases chemical resistance
- Non-toxic, non-corrosive and non-flammable
- Easy to use
- Does not re-emulsify even in high alkaline conditions

PRODUCT INFORMATION

Packaging	▪ 20 L pail ▪ 200 L drum (available upon request)
Appearance / Colour	Milky white liquid
Shelf Life	12 months from the date of production
Storage Conditions	Store properly in original, unopened and undamaged sealed packaging in dry conditions. Protect from direct sunlight.

TECHNICAL INFORMATION

Mortar Mix Design	(all mixing ratios given are by volume)

Bonding Coat

SikaLatex® MY : water	1 : 1
Cement : sand	1 : 1
Sand grain size	See "Further Information - Sand"
W/C ratio	Mix to suit requirement / application. Generally, use as little gauging water (SikaLatex® MY solution) as possible.
Consumption	See 'Consumption' (approx. 0.23–0.3 L of SikaLatex® MY per m² per 1 mm thickness based on W/C ratio of 0.5–0.8).

Repair and Patching Mortar, Masonry Joints, etc

SikaLatex® MY : water	1 : 1 for mortar < 10 mm thickness 1 : 2 for mortar > 10 mm thickness
Cement : sand	1 : 1 to 1 : 3
Sand grain size	See "Further Information - Sand"
W/C ratio	Mix to suit requirement / application. Generally, use as little gauging water (SikaLatex® MY solution) as possible.
Consumption	See 'Consumption' (approx. 0.7–2.3 L of SikaLatex® MY per m² per 10 mm thickness based on W/C ratio of 0.5–0.8).

Floor Screeds, Intermediate Coats and Wear Resistant Screeds

SikaLatex® MY : water	1 : 1 to 1 : 2 for hard wearing floors 1 : 2 to 1 : 4 for normal use
Cement : sand	1 : 2 to 1 : 3
Sand grain size	See "Further Information - Sand"
W/C ratio	Mix to suit requirement / application. Generally, use as little gauging water (SikaLatex® MY solution) as possible.
Consumption	See 'Consumption' (approx. 0.4–1.9 L of SikaLatex® MY per m² per 10 mm thickness based on W/C ratio of 0.5–0.8).

Renderings

Normal Rendering with Hydraulic Lime Mortar

SikaLatex® MY : water	1 : 2 to 1 : 4
Binder with sand	1 : 2.5 to 1 : 4
Sand grain size	0.3–0.8 mm
W/C ratio	Mix to suit requirement / application. Generally, use as little gauging water (SikaLatex® MY solution) as possible.
Consumption	See 'Consumption' (approx. 0.3–1.1 L of SikaLatex® MY per m² per 10 mm thickness based on W/C ratio of 0.5–0.8).

Cement / Sand Rendering

SikaLatex® MY : water	1 : 1 to 1 : 2
Cement : sand	1 : 3 to 1 : 4
Sand grain size	0.3–0.8 mm
W/C ratio	Mix to suit requirement / application. Generally, use as little gauging water (SikaLatex® MY solution) as possible.
Consumption	See 'Consumption' (approx. 0.7–1.9 L of SikaLatex® MY per m² per 10 mm thickness based on W/C ratio of 0.5–0.8).

Adhesive Mortar (e.g. as a tile adhesive)

SikaLatex® MY : water	1 : 2
Cement : sand	1 : 2
Sand grain size	0–2 mm with higher proportion of fine sand under 0.2 mm
W/C ratio	Mix to suit requirement / application. Generally, use as little gauging water (SikaLatex® MY solution) as possible.
Consumption	See 'Consumption' (approx. 0.7–1.0 L of SikaLatex® MY per m² per 10 mm thickness based on W/C ratio of 0.5–0.8).

APPLICATION INFORMATION

Consumption

Approx. SikaLatex® MY requirement in litre per m² per 10 mm thickness. Mixing ratio by volume.

SikaLatex® MY : Water = 2 : 1

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	3.0	4.0
1 : 1.5	2.2	3.0
1 : 2	1.9	2.5
1 : 2.5	1.6	2.2
1 : 3	1.4	2.0
1 : 4	1.2	1.6

SikaLatex® MY : Water = 1 : 1

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	2.3	3.0
1 : 1.5	1.6	2.3
1 : 2	1.4	1.9
1 : 2.5	1.2	1.7
1 : 3	1.1	1.5
1 : 4	0.9	1.2

SikaLatex® MY : Water = 1 : 1.5

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	1.8	2.4
1 : 1.5	1.3	1.8
1 : 2	1.1	1.5
1 : 2.5	1.0	1.3
1 : 3	0.8	1.2
1 : 4	0.7	1.0

SikaLatex® MY : Water = 1 : 2

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	1.5	2.1
1 : 1.5	1.1	1.5
1 : 2	0.9	1.3
1 : 2.5	0.8	1.1
1 : 3	0.7	1.0
1 : 4	0.6	0.8

SikaLatex® MY : Water = 1 : 2.5

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	1.3	1.7
1 : 1.5	0.9	1.3
1 : 2	0.8	1.1
1 : 2.5	0.7	1.0
1 : 3	0.6	0.9
1 : 4	0.5	0.7

SikaLatex® MY : Water = 1 : 3

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	1.1	1.5
1 : 1.5	0.8	1.1
1 : 2	0.7	1.0
1 : 2.5	0.6	0.8
1 : 3	0.5	0.8
1 : 4	0.4	0.6

SikaLatex® MY : Water = 1 : 4

Cement : Sand	W/C Ratio = 0.5	W/C Ratio = 0.8
1 : 1	0.9	1.2
1 : 1.5	0.7	0.9
1 : 2	0.6	0.8
1 : 2.5	0.5	0.7
1 : 3	0.4	0.6
1 : 4	0.3	0.5

Ambient Air Temperature	Minimum +5 °C
Substrate Temperature	Minimum +5 °C

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be sound, clean and free from oil, grease, laitance, loose particles or dust. All absorbent substrates must be pre-wetted to saturated surface dry (SSD) condition.

MIXING

Mix sand and cement first, then add SikaLatex® MY solution as required (SikaLatex® MY solution is SikaLatex® MY diluted with water – see 'Mortar Mix Design'). Mix either by hand or with a low speed drill for no more than 2 minutes.

APPLICATION METHOD / TOOLS

Bonding Coat
For rendering on to difficult substrates, waterproof renderings with Sika®-1 System, laying of floor screeds, concrete repair, patching & filling, bonding between new and old concrete, etc., a bonding coat of mortar or slurry with SikaLatex® MY solution is recommended.
As a Bonding Coat for Rendering
Mix up a stiff mortar and place on a layer of 4–5 mm thickness. Ensure the layer is tack free before follow-on application of rendering coats of conventional render or ready-to-use mortar. For waterproof rendering with Sika®-1 System, consult Sika®-1 product data sheet.
For Bonding New to Old Concrete
Prepare a mortar of pasty consistency. Apply the mortar on to the wetted surface in 20–30 mm layer thickness and pour new concrete on to it immediately. Vibrate the concrete carefully to achieve satisfactory inter-mixing of the SikaLatex® MY mortar and the concrete.
As a Bonding Coat for Floor Screeds, Patching & Filling Mortar and Other General Uses

Mix up a good brushable slurry and apply on to the substrate in 1–3 mm thickness. Work well into the substrate with a stiff brush. Follow-on screed, patching or filing mortar to be applied immediately, wet-on-wet. Neat cement may be used instead of a dry mix of cement and sand.

Repair and Patching Mortar, Masonry Joints, etc
Repair and Patching Mortar
Apply the stiff plastic mortar on the well saturated substrate. For areas subject to heavy use or application on to very smooth substrates apply a bonding coat prior to application of mortar. Also see 'Further Information - High Cement Mortar / Thick Applications'.
Masonry Joints
Mix mortar into a paste-like consistency and place firmly into the previously wetted joints with a spatula or pointing trowel and finish off with a pointing trowel. With a richer SikaLatex® MY solution, e.g. SikaLatex® MY : water = 2:1, a higher chemical resistance is achieved especially against urine, ammonia and diluted alkaline solutions.

Floor Screeds, Intermediate Coats and Wear Resistant Screeds
After applying the bonding coat on to the substrate, place the mortar wet-on-wet in layers of 15–30 mm thickness. Compact well and rub down. Pay attention to the arrangement of expansion and construction joints. Observe normal curing practice.
When no curing compound is available at site, curing may be done by spraying the surface with SikaLatex® MY solution (SikaLatex® MY : water = 1:1) as soon as the mortar has started to harden. After 24 hours, keep the surface wet by spraying water on it.
Also see 'Further Information – High Cement Mortar / Thick Applications'.

Renderings
SikaLatex® MY is added to the rendering mortar where properties such as improved adhesion, better flexibility, reduced shrinkage and water permeability are required.
Apply the bonding coat according to 'Mortar Mix Design'. The rendering is then applied on to the tack-free bond coat in accordance with good rendering practice.

Adhesive Mortar (e.g. as a tile adhesive)
Mix up a mortar for application by trowel and fix tiles according to good application practice (thin layer method), onto a smooth concrete or rendering / screed finish. For waterproof joint-grouting, a mixture of pure cement and SikaLatex® MY shall be used.

CLEANING OF TOOLS

Clean all tools and application equipment with water immediately after use. Hardened or cured material can only be mechanically removed.

FURTHER DOCUMENTS

Sand
Use only clean, washed and well graded sand. Grain size should suit application thickness and surface finish. As a guide, the following is recommended:

Application Thickness	Grain Size Diameter
Up to 2 mm	Up to 0.5 mm
2 to 5 mm	Up to 1.0 mm
5 to 15 mm	Up to 3.0 mm
Over 15 mm	Up to 6.0 mm

High Cement Mortar / Thick Applications
Thick mortar with high cement content (cement : sand = 1:1 to 1:2) should be applied in layers of up to 15 mm thickness per layer. Always work wet-on-wet.

IMPORTANT CONSIDERATIONS

SikaLatex® MY mortar should be thoroughly mixed (but not longer than 1–2 minutes otherwise too much air may be entrained).
Do not use neat SikaLatex® MY as a bonding coat. A delay in subsequent overcoating may result in a film forming on the substrate causing separation of subsequent layers. Use SikaLatex® MY as an additive to make up cementitious slurry or a cement / sand mortar.
Over dilution of SikaLatex® MY solution, for e.g. more than 1:4 (SikaLatex® MY : water) is not recommended as this will result in very little performance improvement.
SikaLatex® MY mortar should not be applied at temperatures below +5 °C.
SikaLatex® MY mortar is not resistant to constant contact with petrol, organic solvents and acids.
When working with SikaLatex® MY mortar, observe the following working rules as if working with ordinary cement mortars:
- Clean and prewet surface (saturated surface dry)
- Use clean sand with suitable sieve grading curve (sieve distribution)
- Use as little gauging water (SikaLatex® MY solution) as possible
- For multi-layered application, always work wet-on-wet
- Protect against rapid drying due to wind and extreme temperature

Proper curing of cement based product is essential.
Where overcoating of the screed / render / mortar is required apply Antisol®-A curing compound. In other cases, apply Antisol®-E, Antisol®-90 or other curing practices such as covering with polythene sheets or damp hessian.

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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