

PRODUCT DATA SHEET

SikaLatex[®]-111

(formerly MasterCast[®] 111)

Emulsion Admixture and Bonding Agent for Concrete and Mortars

DESCRIPTION

SikaLatex[®]-111 is an alkali compatible acrylic emulsion, specially modified for use in concrete and cement mortars. The product is a white liquid, which cures to a clear film.

USES

SikaLatex[®]-111 may be used as an adhesive, as modifier for thin section repair mortars or to provide concrete with low permeability, increased abrasion resistance and mild acid resistance.

TYPICAL APPLICATIONS

- Bonding repair surfacing.
- Industrial floor repairs and protection.
- Repairs to reservoirs, swimming pools, digesters retaining walls, sumps, columns and beams.
- Improving bond and water tightness of plasters.
- Leveling floors to receive vinyl or tile overlayments.
- Improved washability and chemical resistance of floors in dairies, abattoirs, food processing plants and the like (used in combination with dry shake floor hardeners).

PRODUCT INFORMATION

Chemical Base	SikaLatex [®] -111 is an alkali compatible acrylic emulsion ,
Packaging	SikaLatex [®] -111 is available in 20 litre containers and 200 litre drums.
Shelf Life	Shelf life is 12 months if properly stored, but lumpy skinned or algae affected materials should be discarded.
Storage Conditions	SikaLatex [®] -111 should be stored in cool, dry conditions and protected from freezing.

CHARACTERISTICS / ADVANTAGES

SikaLatex[®]-111 is non-toxic, does not discolour and is suitable for mortars subject to ultraviolet exposure.

SPECIAL BENEFITS ARE

- Elimination of need for water cure to achieve strength.
- Elimination of dusting caused by lack of surface cure.
- Adjustment of elastic modulus according to dosage.
- Lowered liquid absorption arresting chemical aggression.

Appearance / Colour	Whitish liquid
Density	1.000 – 1.040
pH-Value	7.0 – 9.0

TECHNICAL INFORMATION

Concreting Guidance	MODIFIED MORTARS OR CONCRETE Modification is achieved by preparing mortar or concrete with a mixture of SikaLatex®-111 and water as the gauging liquid. Ratios of SikaLatex®-111 to water vary according to requirements. In general, however the following guide may be used:							
	<table><tr><td>Bond Coats</td><td>1:1</td></tr><tr><td>Thin Repair Mortars (±10mm)</td><td>1:3</td></tr><tr><td>Thick Surfacing (±20mm)</td><td>1:5</td></tr><tr><td>Seal Coats</td><td>1:2</td></tr></table>	Bond Coats	1:1	Thin Repair Mortars (±10mm)	1:3	Thick Surfacing (±20mm)	1:5	Seal Coats
Bond Coats	1:1							
Thin Repair Mortars (±10mm)	1:3							
Thick Surfacing (±20mm)	1:5							
Seal Coats	1:2							
Curing Conditions	SikaLatex®-111 modified mixes must not be water cured. Water prevents oxygenation and polymerization of the emulsion. Protection with polyethylene sheet or a suitable Sika curing compound is all that is necessary.							

APPLICATION INFORMATION

Consumption	APPLICATION: PREPARATIONS Surfaces to be treated must be clean and structurally sound. All dust, grease, oil, laitance or bond breakers must be removed, and concrete substrates thoroughly wetted to reduce water absorption.
	APPLICATION: BOND COAT Mix equal parts of SikaLatex®-111 and water, and to this add Portland cement to form a heavy bodied cream like slurry. Spread the bond coat evenly using a stiff fibre brush. Do not leave standing pools. Place overlay before the bond coat dries.

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.

USES

Do not use SikaLatex®-111:

- At below 5°C.
- In extreme temperatures (40°C+), without protection.
- Where aromatic solvents may soften the film.
- Where in service temperature exceeds 100°C.

ECOLOGY HEALTH AND SAFETY

Refer to the product Safety Data Sheet (SDS) for detailed information.

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.

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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Product Data Sheet

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