

PRODUCT DATA SHEET

Prohesive Megalite

A SINGLE PART HIGH PERFORMANCE LIGHT WEIGHT flexible POWDERED ADHESIVE FOR heavy duty TILE AND STONE APPLICATIONS

DESCRIPTION

Prohesive Megalite is a premium highly flexible, light weight, polymer fortified cement based adhesive design for a variety of heavy duty tile and stone applications including pools and spas.

USES

Prohesive Megalite

Is suitable for fixing tile and stone by thin and medium bed applications up to 19mm.

Is suitable for internal and external applications.

Is suitable for use in pools, spas, and saunas.

Is suitable for use over Sika approved acoustic underlays.

Is suitable for use over approved Sika tile-able waterproof membranes.

Is suitable for use over Schonox AB waterproof membrane.

Suitable Tile Types are;

- Ceramic Tiles
- Porcelain Tiles
- Mosaic Tiles
- Glass Tiles and Mosaics
- Natural Stone (non moisture sensitive)
- Terrazzo Tiles (non moisture sensitive)
- Man made Stone (non moisture sensitive)

Suitable substrates include;

- Concrete (concrete above 35Mpa compressive strength requires mechanical preparation)
- Compressed cement boards*
- Ceramic Tile Underlay / Fibre cement boards*
- Existing Tiles (used in conjunction with Eco Systems Prep n Prime)
- Concrete Masonry
- Sika approved waterproof membranes
- Sika approved acoustic underlays.
- Schonox AB Waterproof membrane

**Refer to board manufacturers instructions for further details and load limits.*

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion / high bond strength
- Multi use applications - Pools, spas, heavy duty applications
- Suitable for early aged Mortar beds / Screeds
- Excellent coverage same as 25kg bag
- Light Weight, easy application
- Highly flexible S2 Class performance
- Low VOC

PRODUCT INFORMATION

Packaging	13.5kg Bags / 64 Bags per Pallet
Shelf life	12 Months from date of manufacture.
Storage conditions	Store off ground in dry cool conditions for maximum shelf life (high humidity will reduce shelf life).
Appearance and colour	White powder

TECHNICAL INFORMATION

Transverse deformation	≥2.5mm <5mm			
Tensile adhesion strength	Test	Result	Requirement	AS ISO 13007
	Initial tensile	≥1.5 N/mm ²	≥1 N/mm ²	
	After water	≥1.3 N/mm ²	≥1 N/mm ²	
	After heat	≥1.5 N/mm	≥1 N/mm ²	
Slip resistance	≤ 0.5mm			

APPLICATION INFORMATION

Mixing ratio	5 - 5.5 Litres of water per 13.5kg bag		
Consumption	Notched trowel size	Approx coverage per bag	
	6mm Notched trowel	11m ²	
	10mm Notched Trowel	6m ²	
Layer thickness	3mm - 19mm Thickness.		
Ambient air temperature	+5°C Min / +35°C Max		
Substrate temperature	+5°C Min / +35°C Max		
Pot Life	3 hours at 23°C & 50% RH		
Open Time	30 Minutes at 23°C & 50% RH		
Adjustability time	50 - 60 minutes dependant on substrate & environment.		
Applied product ready for use	USE	WAITING TIME	
	Grouting of walls	8-10 hours	
	Grouting of floors	20-24 hours	
	Filling with water	21 Days	
	Full traffic / Use	7 Days	
Values determined at laboratory conditions: 23°C ± 2°C, RH 50% ± 5%. Higher temperatures will reduce waiting times and lower increase times.			

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.

IMPORTANT CONSIDERATIONS

- Prohesive Megalite cannot be used directly over tongue n groove timber flooring, particle board, plywood, medium density fibre board, or Masonite.
- Prohesive Megalite is not suitable for fixing moisture sensitive tile or stone.
- Prohesive Megalite cannot be used over solvent based polyurethane waterproof membranes.
- Mechanical fixing techniques are required when fixing externally at heights above 2.7 meters high.
- The performance of cement based adhesive will be compromised when tiling in temperatures below 5°C and above 35°C.
- Efflorescence is beyond the control of the manufacturer due to external influences beyond our control.
- Contact Sika for advice if further information is required.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Substrate deflection, all substrates under loads must not exceed of L/360 for tiles and L/450 for stone applications.
- Substrates must be properly cured, structurally sound, free from loose or friable particles, clean, dry and free from contaminates such as dust, dirt, oil, grease, curing compounds, laitance or efflorescence.
- Dependant on the substrate condition and contamination to be removed from the surface, perform adequate preparation techniques such as water blasting, scarification, or blast cleaning in order to remove all traces of any materials that could reduce the products adhesion to the substrate.
- Any small defects in surface variations in level, profile or around exposed aggregates for example, can be prefilled and levelled with an additional layer of Prohesive Megalite to a maximum thickness of 19mm, applied at least 24 hours prior to tiles being laid. for larger areas of surface correction use appropriate Sika MonoTop® or Sikafloor® level range should be used. Cracks in substrates must be identified and sealed / treated appropriately.
- For tiling wet areas, a suitable Sika approved waterproof membrane should be used prior to tiling.

SUBSTRATE DEFLECTION

Substrate deflection under loads must not exceed L/360 for tiles and L/450 for stone.

CONCRETE FLOORS: Early age concrete must be a min-

imum 10 days old. Concrete shall be left with open surface - steel trowel finishes are generally acceptable if they display the "moderate water absorbed" in the substrate test. Wood float and broom finishes are preferred where possible. All traces of curing compounds, sealers, release agents, coatings, dust, dirt, oil, and any other contaminate that may inhibit the adhesion must be removed prior to tiling. Concrete must accept water and be free from Laitence.

CEMENT MORTAR BEDS / SCREEDS: Must be installed as per AS ISO 3958.1-2007. Prohesive Megalite can be used over early aged mortar beds / screeds. Screeds must be 24 hours old per 25mm of thickness.

SHEETED SUBSTRATES: All boards / underlays must be installed as per manufacturer's instructions and specifically designed for tiling.

PRIMING:

Porous Substrates: Eco prime WB*

Non Porous Substrates: Eco Prep N Prime*

*Refer to primer datasheets for additional information.

MIXING

Pour cool fresh water into a clean mixing container before slowly adding the adhesive powder. Mix with a slow speed drill (~500rpm) for approximately 2-3 minutes to achieve a smooth lump free homogenous lump free mixture. Allow the mixture to Stand for 5 minutes, then re-stir for an additional 2 minutes without adding any additional water. Restirring the mixture may be necessary during the potlife.

APPLICATION

Tiles shall be fixed in accordance with AS3958.1-2007. Ensure the backs of the tiles are clean and free from dust and contaminates.

Apply the adhesive to the substrate with the appropriately sized trowel to achieve coverage requirement on both substrate and the back of the tile. Tiles may require "back-buttering" to achieve maximum coverage requirements.

Apply the adhesive with the notched trowel in a single direction. While pressing the Tile into the wet adhesive, break the ridges with the tile to fully bed the tile into the adhesive.

It is advisable to periodically check the back of the tiles to ensure adequate adhesive coverage is achieved in accordance with Australian Standards.

Only apply as much adhesive that can be covered by the tiles prior the adhesive skinning. If skinning occurs prior to placement of tiles remove and replace.

Remove any excess adhesive from the face of the tiles with a damp sponge and ensure grout joints are clean and free from excess adhesive and uniform depth.

Movement, Expansion, and Control joints must be installed as per AS ISO 3958.1-2007.

For tile over tile applications use Eco Systems Prep n Prime. Ensure existing tiles are soundly fixed and free from defect. Gloss finished or polished tiles need mechanical preparation prior to priming with Eco Systems Prep n Prime.

CLEANING OF EQUIPMENT

Tools and equipment can be cleaned with water prior to adhesive setting.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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Product Data Sheet

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