

Sikafloor[®] - 400N Elastic

UV-resistant, high elastic polyurethane waterproof membrane

Construction

Description	Sikafloor-400 N Elastic is a one-component, UV resistant, highly elastic, moisture curing polyurethane waterproof membrane.
Uses	<p>Sikafloor-400N Elastic is suitable for applications to most common building substrates including concrete, fibre cement, plasterboard, timber, and some metals. It is suitable for use as a waterproof membrane for wet areas as described in AS 4858:2004 "Wet Area Membranes".</p> <p>It can be used as a waterproof membrane and coating for:</p> <ul style="list-style-type: none"> • Exposed roofs, decks, terraces, gutters, flashings, walls • Tanks, reservoirs and pipes • Shower recesses • Wet areas • Balconies • Retaining walls • Planter boxes • Slab floors
Advantages	<ul style="list-style-type: none"> • UV resistant and non-yellowing. • Excellent mechanical resistance. • Can be made slip resistant. • Versatile – can be used for a flexible coating and as a waterproof membrane. • Good crack bridging ability. • Excellent thermal resistance. • Fast curing • Good resistance to a wide range of chemicals and detergents • Approved in accordance with AS 3740 - 2004 "Waterproofing of wet areas within residential buildings". • Approved in accordance with AS 4020 - 2002 "Approval for Use in Potable Water".
Storage and Shelf Life	Approximately six (6) months from date of manufacture when stored in its unopened original containers in a cool, dry place.
Instructions for Use	
Surface Preparation	<p>Surfaces must be clean and free from all traces of loose materials, old coatings, curing membranes, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa.</p> <p>Structurally unsound layers and surface contaminants must be mechanically removed by abrasive blast tracking or grinding. Substrates heavily impregnated with oil must be cleaned by torching or suitable solvent cleaning methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If all the water is quickly absorbed, the surface is sufficiently oil and grease free. If the water forms into globules that remain on the surface, further thorough treatment of the concrete is necessary.</p> <p>Sikafloor-400 N Elastic acts as a self-levelling coating and will not re-profile</p>

irregular substrates. For re-profiling defects on horizontal surfaces a suitable patching mortar is required. The patching mortar can be of epoxy or cementitious base depending on the scope, particular conditions and requirements of the work. Contact the Sika technical department for further information.

Priming For areas subjected to light wear, prime the substrate with one coat of Sikafloor-400 N Elastic diluted with 10% Sika Thinner C.
Apply Sikafloor-156 as a primer for areas subjected to medium or high wear. Apply the primer in accordance with the technical data sheet.

Tiling If Sikafloor-400N Elastic is to be tiled, quartz sand should be broadcast into the topcoat to give the surface a mechanical key.
Before tiling the membrane should be fully cured, tiling should commence immediately after it is fully cured. The membrane must be clean and free of dirt, oil, grease and contaminants. Tiling should be conducted using 2 part polymer modified tile adhesives and proper tiling practice should be observed.

Coating System

1. Light pedestrian traffic

	Product	Consumption	Thickness per coat	Yield per kit
Prime Coat	Sikafloor-400N + 10% Thinner C	0.4kg/m ²	approx. 0.3 mm	45 m ²
Base Coat	Sikafloor-400N	0.6 kg/m ²	approx. 0.5 mm	30 m ²
Top Coat	Sikafloor-400N	0.6 kg/ m ²	approx. 0.5 mm	30 m ²

2. Light to medium traffic

	Product	Consumption	Thickness per coat	Yield per kit
Prime Coat	Sikafloor-156 A+B	0.3 – 0.5 kg/m ²	-	32 – 53 m ²
Base Coat	Sikafloor-400N	1.5 kg/m ²	approx. 1.4 mm	12 m ²
Anti-slip surface	Quartz sand*	3-5 kg/m ²	-	-
Top Coat	Sikafloor-400N	0.6 kg/m ²	approx. 0.5 mm	30 m ²

3. Heavy traffic

	Product	Consumption	Thickness per coat	Yield per kit
Prime Coat	Sikafloor-156 A+B	0.3 – 0.5 kg/m ²	-	32 – 53 m ²
Base Coat	Sikafloor-400N	1.5 kg/m ²	approx. 1.4 mm	12 m ²
Intermediate Coat	Sikafloor-400N	0.6 kg/m ²	approx. 0.5 mm	30 m ²
Anti-slip surface	Quartz sand*	3-5 kg/m ²	-	-
Top Coat	Sikafloor-400N	0.6 kg/m ²	approx. 0.5 mm	30 m ²

4. Wet Areas (i.e showers etc)

	Product	Consumption	Thickness per coat	Yield per kit
Prime Coat	Sikalastic-450 + 15% Thinner C	0.25 kg/m ²	approx. 0.3mm	84 m ²
Base Coat	Sikalastic-450	0.3 kg/m ²	approx. 0.5mm	70 m ²
Top Coat	Sikafloor-400N	1.5 kg/m ²	approx. 1.4 mm	12 m ²

* The type and size of quartz sand, as mentioned under Application, is chosen to suit the anti-slip requirements

Mixing	Stir thoroughly with an electric stirrer prior to use for 2 to 3 minutes at a low speed (300 – 450 rpm) until completely blended.
Application	Apply to the floor in an even layer, using a brush, roller (preferably solvent resistant), airless spray or notched trowel.
Application Conditions	<u>Substrate temperatures</u> Minimum +10°C (but min. 3°C above dew point) Maximum +30°C Relative humidity max. 80%
Cleaning	Clean all tools and equipment immediately after use with Sika Colma Cleaner. Once hardened, the material can only be removed mechanically. If in contact with hand and skin, thoroughly wash in hot, soapy water.

Technical and Physical Data

Form	Liquid polyurethane	
Density	1.6 kg/litre (DIN 53 217)	
Solids Content	88%	
Elongation at break	320% (DIN 53 504 – after 7 days curing at 23°C / 50% RH)	
Abrasion as per Taber Abraser	30mg (DIN 53 109 – after 7 days curing at 23°C / 50% RH)	
Shore Hardness	Shore D45 (DIN 53 505 – after 7 days curing at 23°C / 50% RH)	
Pot life	1 hour @ 20°C.	
Recoating times	24 hours @ 10°C 6-8 hours @ 20°C 5-6 hours @ 30°C	
Rate of reaction (23°C / 50% RH)	Rain resistant	5 hours
	Foot traffic	5-7 hours
	Mechanical exposure	7 days
	Chemical exposure	7 days
Packaging	18 kg units (11.25 litres)	
Important Notes	<ul style="list-style-type: none"> • On substrates with moisture content greater than 4%, a minimum 2mm thick Sikafloor-81 EpoCem or Sikagard-720 EpoCem temporary moisture barrier is required. • Avoid applying Sikafloor-400N when rain is present or imminent. • Do not apply Sikafloor-400N to wet or damp substrates 	

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Handling Precautions

- Sika products are generally quite harmless, provided normal precautions are taken when handling chemicals. Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles etc. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention immediately.
- Avoid all sources of ignition. No smoking.
- For further information refer to the Sika Material Safety Data Sheet which is available on request.
- If in doubt always follow the directions given on the pack or label.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's 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 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 proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

