

Sika[®] Proof 400M

Monogum DG 4 AF

Torch applied mineral based bituminous waterproofing membrane

Construction

Description	<p>Sika Proof 400M is torch applied APP modified bituminous sheet membrane reinforced with non-woven polyester. The reinforcement is impregnated with an APP based compound.</p> <p>The lower face of the sheet is protected by a polypropylene film, and has a micro-profile for ease of torching. The upper side is finished with mineral slates.</p>
Uses	<p>Sika Proof 400M can be used as a waterproofing membrane for external areas such as :</p> <ul style="list-style-type: none"> • Flat or pitched roofs • Decks, terraces and balconies <p>The Sika Proof 400M is generally applied in a multi layer application with Sika Proof 300.</p>
Advantages	<ul style="list-style-type: none"> • Uniform thickness of 4mm (+/- 0.2) • Easily installed using flame torch methods • Excellent stability when exposed to stresses such as movement and temperature extremes • Mineral slates allow the membrane to be used in external areas and exposed conditions • Reinforced polyester allows the sheet to be flexible, durable, and resistant to heat, aging and puncture • Good chemical resistance • Excellent waterproofing capabilities
Storage and Shelf Life	<p>Stored in its unopened original containers in a cool, dry place. Store rolls on end.</p>
Instructions for Use	<p>Surface Preparation</p> <p>Surfaces must be clean and free from all traces of loose materials, old coatings, curing membranes, release agents, laitance, oil and greases etc.</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.</p> <p>For re-profiling defects on horizontal surfaces a suitable patching mortar is required. The patching mortar should be of cementitious base depending on the scope, particular conditions and requirements of the work. Contact the Sika technical department for further information.</p>
Priming	<p>Apply Sika Proof Primer as a primer on all concrete and masonry substrates. The primer should be applied at a rate of approximately 0.25 litres/m² (or 4m² per litre). Only apply the primer where the Sika Proof 400M is to be applied.</p> <p>The coverage rate of the primer will depend on the porosity of the surface. Allow the primer to dry for approximately 1 hour (at > 20°C). Begin applying the Sikaproof 300RM when the primer is tack free.</p>
Application	<p>Ensure that the surface to waterproofed has been primed. Place the torchable side of the sheet down. Torch apply one layer of Sika Proof 400M, making sure that laps of 80 mm on the side, and 100 mm at the ends, are maintained. The flame heat must be applied evenly and within the correct temperature range. A bead of liquid bitumen must be visible on the underside of the roll.</p> <p>For a 2 layer system, apply Sika Proof 400M over a first layer of Sika Proof 300 or Sika Proof 400, ensuring that the membrane is fully heat welded to the layer beneath. Maintain the side laps of 80 mm and end laps of 100 mm. All side and end laps should be staggered in relation to the previous layer.</p>

Maintenance	Areas waterproofed with Sika Proof 400M are virtually maintenance free. A regular inspection of the general appearance of the membrane is recommended. Any damage identified during inspection should be repaired or replaced as appropriate.
Limitations	<ul style="list-style-type: none"> ▪ In multi layer applications take care to prevent damage to the existing layer due to over torching. ▪ The polyethylene backing sheet must not be removed prior to application. It will melt away under the heat of the flame. ▪ The seams must be carefully finished, especially in single ply applications. During application they must be pressed down firmly.

Technical and Physical Data

Form	APP torch applied reinforced mineral based bituminous sheet
Colour	Grey
Thickness	4 mm
Reinforcement	160 g per m ²
Mass	5.5 kg/m ²
Coverage	1 roll covers approximately 7 m ² (allowing for overlaps)
Elongation at break (UEatc)	Longitudinal: 40% Transverse: 45%
Tensile strength (UEatc)	Longitudinal: 600 N Transverse: 400 N
Dimensional Stability	< 0.5%
Cold Flexibility	< - 4°C
Softening point	140°C
Packaging	1 metre wide x 8 metre long rolls

Handling Precautions	<ul style="list-style-type: none"> ▪ 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.
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Important Notification	<p>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 Technical Data Sheet for the product concerned, copies of which will be supplied on request.</p> <p>PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.</p>
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