

Sika® Blackseal-4000 MY

(formerly known as Sika® Proof-4000 AF)

Torch applied bituminous waterproofing membrane

Product Description

Sika® Blackseal-4000 MY is a torch applied APP modified bituminous sheet membrane reinforced with non-woven polyester. The reinforcement is impregnated with an APP based compound.

The lower face of the sheet is protected by a polyethylene film and has an embossed texture for ease of torching. The upper side is protected by mechanically rolled mineral slates.

The membrane may be employed as an exposed waterproofing system.

Uses

Sika® Blackseal-4000 MY can be used as a waterproofing membrane on:

- Flat or pitched roofs (as an exposed or concealed system)
- Foundations and basements
- Terraces and balconies
- Cut and cover tunnels, subways

The Sika® Blackseal-4000 MY can be applied in single layer or in multi layer applications.

Characteristics / Advantages

- Uniform thickness of 4 mm
- Easily installed using flame torch methods
- Excellent stability when exposed to stresses such as movement and temperature extremes
- Reinforced polyester allows the sheet to be flexible, durable and resistant to heat, aging and puncture
- Good chemical resistance
- Water and vapour proof

Product Data

Form

Appearance / Colour Black with grey mineral slates

Packaging Dimension of the roll 1 x 10 m

Storage

Storage Conditions / Shelf Life 2 years from date of production when stored upright on pallets indoor in cool, dry conditions. Do not stack rolls. Keep away from direct sunlight.



Technical Data

Chemical Base APP-modified reinforced bituminous sheet

Thickness 4 mm

Mechanical / Physical Properties

(Average Values)

Reinforcement 160 g/m² (polyester)

Tear Resistance ■ Longitudinal 180 N (ASTM D 5147)
■ Transverse 160 N

Elongation At Break ■ Longitudinal 40% (UEatc)
■ Transverse 50%

Tensile Strength ■ Longitudinal 700 N/5cm (UEatc)
■ Transversal 500 N/5cm

Puncture Resistance ■ 4 (Static) (UEatc)
■ 3 (Dynamic)

Resistance to Aging Complies (ASTM D 4799)

Resistance to Water Pressure No leakage (DIN 52123)

Water Absorption < 0.20% (BSP) (ASTM D 5147)

System Information

Application Details

Surface Preparation Surfaces must be clean and free from all traces of loose materials, old coatings, curing membranes, release agents, laitance, oil, greases, etc.
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.
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 our Technical Service Department for further information.

Application Instructions

Application Method / Tools

For fully bonded applications, first apply BC Bitumen Coating as a primer onto the substrate and allow to dry. Only apply the primer where the Sika® Blackseal-4000 MY is to be applied. Begin applying the Sika® Blackseal-4000 MY when the primer is tack free.

Ensure that the surface to be waterproofed has been primed. Place the torchable side of the sheet down. Torch apply one layer of Sika® Blackseal-4000 MY, making sure that laps of 100 mm on the side, and 150 mm at the ends, are maintained. End joints must be staggered – the overlap of four corners is not permissible. 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.

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.

Cleaning of Tools

Clean all tools and application equipment with light solvent immediately after use.

Notes on Application / Limitations

- In multi layer applications take care to prevent damage to the existing layer due to over torching
- A slip sheet should be used on the membrane when applying a solid topping over the top
- An approved membrane protection board should be installed over the membrane prior to any backfilling
- Not root resistant

Value Base

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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available upon request) containing physical, ecological, toxicological and other safety-related data.

Legal Note

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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