BUILDING TRUST

PRODUCT DATA SHEET

Sika® BituSeal T-140 SG

4 MM THICK, TORCH-ON SHEET WATERPROOFING MEMBRANE BASED ON APP MODIFIED, REINFORCED BITUMEN, WITH A SAND BROADCAST SURFACE – FLEXIBLE TO 0°C

DESCRIPTION

Sika® BituSeal T-140 SG is a torch-on sheet waterproofing membrane that is flexible to 0°C. It is based on APP (atactic poly-propylene) modified bitumen, reinforced with polyester non woven fabric. It has a sand broadcast surface and the reverse is faced with a polyethylene film to ease installation works.

USES

- Waterproofing and damp-proofing of the exterior walls of basements against percolating water and damp soil
- Waterproofing of retaining walls
- Waterproofing on flat roofs under protective layers or ballast
- Waterproofing on flat and exposed roofs and under tiles
- Waterproofing on balconies/terraces under tiles

CHARACTERISTICS / ADVANTAGES

- Resistant to ageing
- Resistant to weathering
- Good tensile strength and elongation
- High resistance to water vapour (non-vapour permeable)
- Good dimensional stability
- Flexible at low temperatures
- Easy to install with the torch-on method
- Not resistant to root penetration
- Suitable as top layer for multi layer installations
- Good resistance to mechanical impact

APPROVALS / STANDARDS

Installation on roofs according to EN 13707 and basements acc. to EN 13969

PRODUCT INFORMATION

Packaging	Roll size: 1.0 m (roll width) x 10.0 m (roll length).	
Appearance / Colour	Top surface: sand broadcast Backing: polyethylene film	
Shelf life	4 years from date of production if store properly	
Storage conditions	Store in dry conditions between +5°C to +35°C. Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice.	
Length	10.0 m (±5%)	(EN 1848-1)
Width	1.0 m (±5%)	(EN 1848-1)
Effective Thickness	4.00 mm (± 5%)	(EN 1849-1)
Resistance to Impact	≥ 600 mm	(EN 12691)

Tensile Strength	700 N / 50mm (± 20%) 600 N / 50mm (± 20%)	(EN 12311-1)
Elongation	45% (± 15%)	(EN 12311-1)
Dimensional Stability	≤ 0.25%	(EN 1107)
Tear Strength	160 N (± 30%)	(EN 12310-1)
Joint Shear Resistance	≥ 400 N / 50 mm	(EN 12317-1)
Flexibility at low Temperature	0 °C	(ENV 1109)

External Fire Performance	Class F roof (t1-4)	(ENV 1187)
Reaction to Fire	Class F	(EN 13501-1)
Artificial Ageing	No defects Long term exposure to elevated temperatures according to EN 1296 flexibility atmelevatedtemperatures > +120°C (from -10°C)	(EN 1296) (EN 1110)
Water Vapour Transmission	≤ 0.2g / 24 hours / m^2	(ASM E96)

APPLICATION INFORMATION

Ambient Air Temperature	+5°C min. / +50°C max.
Relative Air Humidity	≤ 85 %
Substrate Temperature	+5°C min. / +65°C max.
Substrate Moisture Content	≤ 25 %

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the waterproofing build-up. When used as a roofing membrane, the complete roof system must be designed and secured against wind uplift loadings. The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

Use the appropriate Sika® repair material with equipment to achieve the required substrate quality.

APPLICATION METHOD / TOOLS

Installation procedure
Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Priming
Apply the appropriate primer from the BC Bitumen Coating at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheets.

Alignment
Unroll, align and re-roll correctly before torching.

Overlaps
Side: 100 mm. End: 150 mm.
Membranes must be stagged.

Torching
Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick. Roll the membrane forward and press firmly against the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

Detailing
All details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing must follow the recommended guidelines and good practice for torch-applied membranes.

Protection
The membrane must be protected from damage during any ongoing site activities

IMPORTANT CONSIDERATION

- Refer to the Sika bituminous membranes installation

manual before in stalling Sika® BituSeal T-140 SG.
- At low temperatures, take care unrolling to avoid damaging the membrane.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces.
- Do not over-torch the membrane otherwise the polyester reinforcement will be damaged making the membrane un-useable.
- If membrane is insufficiently heated, this can causereduced adhesion to the substrate, between layersor on the overlaps. If this occurs, un-bonded areas must be lifted and re-torched.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.
- The watertightness of the structure must be tested and approved after completion of the membrane installation works according to the requirements of the client's specifications.

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.

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.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety related 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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