

Product Data Sheet
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Sika® BlackSeal T – 140 SG (0°C)

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Torch applied sheet waterproofing membrane

Product Description

Sika® BlackSeal T-140 SG (0°C) is a torch applied sheet waterproofing membrane on base of APP- polymerized bitumen, reinforced with Polyester non woven fabric, with a sanded surface and the reverse faced with PE-film to ease installation works.

Uses

- As Multilayer System for Water- and damp-proofing of exterior walls of basements against percolating water and soil humidity
- Intermediate layer for Multi-layer Systems for waterproofing of exposed roofs
- As Multi-layer System for waterproofing of ballasted roofs

Characteristics / Advantages

- Resistant to ageing
- Good tensile strength and elongation
- High resistance to water vapour permeability
- Dimensional stable
- Easy to install by using flame torch method
- Not resistant to root penetration
- Suitable for multi layer installations only
- Must be installed on primed and smooth substrates of concrete or brickwalls

Tests

Approval / Standards

Product Declaration EN 13707, EN 13969
CE Approval No. 1370 – CPD 0054

Product Data

Form

Appearance / Colours

Rolled sheet membrane, reinforced with Polyester non woven fabric.
Surface: sanded, reverse: PE film to ease installation
Membrane thickness: 4.00 mm
Colour: black

Packaging

Roll size: 1.00 m (roll width) x 10.00 m (roll length).

Construction



Storage

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| Storage Conditions / Shelf-Life | 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. |
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Technical Data

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| Product Declaration | EN 13707, EN 13969 |
| Length | 10.00 m (-1%) (EN 1848 - 1) |
| Width | 1.00 m (-1%) (EN 1848 - 1) |
| Flow Resistance | At elevated temperature: ≥ 110°C (EN 1110) |
| Effective Thickness | 4.00 mm (± 5%) (EN 1849 - 1) |

Mechanical / Physical Properties

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| Water Tightness | ≥ 60 kPa (EN 1928 – B, EN 1928) |
| Tensile Strength | Max. Tensile strength longitudinal / transversal: 450 N / 50 mm (± 20%) 350 N / 50 mm (± 20%) (EN 12311 - 1) |
| Tear Strength | 150 N (± 30%) (nail shank) (EN 12310 -1) |
| Elongation | Longitudinal / Transversal: 40% (± 15) 40% (± 15) (EN 12311 - 1) |
| Resistance to Impact | - (EN 12691) |
| Dimensional Stability | Longitudinal / Transversal: ≤ 0.25% ≤ 0.10% (EN 1107 - 1) |
| Water Vapour Transmission | μ ≥ 20'000 (EN 1931) |
| Flexibility at Low Temperature | ≤ 0°C (EN 1109) |

Resistance

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| Shear Resistance of the joint | Break outside of the joints (EN 12317 -1) |
| Artificial Ageing | <i>By long term exposure to elevated temperature according to EN 1296 - Flow resistance at elevated temperature:</i> +100°C (-10°C) (EN 1110) <i>By long term exposure to UV radiation and elevated temperature according to EN 1296 / EN 1297:</i> Max. tensile strength: 400 N / 50 mm, 300 N / 50 mm (EN 12311 - 1) Max. elongation: 35%, 35% (EN 12311 - 1) Water tightness: ≥ 60 kPa (EN 1928-B) |
| External Fire Exposure | Froof (EN 13501 - 5) |
| Reaction to Fire | class F (EN 13501 - 1) |

System Information

Primer Ancillary Product:
Sika® BlackSeal Primer

Application Details

Substrate Quality *Concrete / brickwork / mortar screeds:*
Clean, sound and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Horizontal surfaces must be sloped > 1.5%.

Application Conditions / Limitations

Substrate Temperature +5°C min. / +35°C max.

Ambient Temperature +5°C min. / +35°C max.

Substrate Humidity no visible moisture

Relative Air Humidity 80% max.

Application Instructions

Application Method / Tools Primer application on substrate for first membrane layer:
Application of Sika® BlackSeal Primer for first membrane layer. Application by brush, roller, or airless spraying. Waiting time, depending to temperature, complete evaporation. Priming for second and further membrane layers not required.
Installation method:
Fully bonded to substrate by torch-on method with Propane - gas flame. Unrolling and positioning of membrane roll with PE-film faced to substrate. Rolling of half roll length, heating of membrane reverse with gas flame until melting of PE-film and bitumen mass while continuous unrolling. A bead of liquid bitumen must be visible on underside of roll. The torch-on membrane must be firmly pressed to substrate in order to avoid air entrapments either with roller or heavy broom. Repeat procedure with second half of roll length.
All installed membranes must be sufficiently overlapped. Sidelaps: 80 – 100 mm, Endlaps: 120 – 150 mm. The seams must be finished with roller while installing of membranes to close gaps and capillaries.

Notes on Application / Limitations This product shall only be used by installers, skilled and experienced in installation of bituminous membranes.

Avoid damage on installed membrane while over torch of further sheet membrane

The water tightness of the structure must be tested and approved after completion of the membrane installation works according to the requirements of the client's specifications.

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| 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. |
| Local Restrictions | Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields. |
| 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 containing physical, ecological, toxicological and other safety-related data. |
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Sika South Africa (Pty) Ltd
9 Hocking Place,
Westmead, 3608
South Africa

E-mail: headoffice@za.sika.com
Phone +27 31 792 6500
Telefax +27 31 700 1760
www.sika.co.za

