

ShieldSEAL Cold Applied Waterproofing System

Description

Shield Seal is a liquid applied roof waterproofing system used on both pitched and flat roofs and can be used on new or existing roofs, walkways, balconies, gutters and further areas that have limited pedestrian access such as blue and living roofs and podiums. Due to its excellent adhesion it can be applied on several surfaces: plywood, bitumen membranes, asphalt, metals, brick and concrete.

Shield Seal is a waterproofing systems that consists of the following (where required):

- ShieldSEAL PU Primer (Where required)
- ShieldSEAL
- ShieldSEAL TOP
- ShieldSEAL Grip (To provide a rough surface for walkways)

Prior to commencement: The system must be applied when the air and substrate temperatures are greater than 5°C. Special precautions may be necessary when temperature exceed 30°C.

| Properties | Values | Methods |
|---------------------------------------|---|---------------|
| Specific Gravity (kg/m ³) | ShieldSEAL - 1.3 - 1.4 / ShieldSEAL Top - 1.3 | DIN 53 217 |
| Viscosity at 23°C | 2.0 - 8.0 | ASTM D2196-86 |
| Dry Extract | >90 | EN1768 |
| Flash Point °C | 42 °C | ASTM D93 |
| Ashes at 450°C % Weight | 42 - 47% | EN 1879 |
| Temperature | 2°C and rising and not exceeding 30°C | |
| Hardness Shore A at 23°C | C > 75 | |
| Tensile Strength | Reinforced with ShieldSEAL matting > 10 Mpa* | |
| Dry Time | 2-8 hours. Fully cured in 24 hours | |
| Tensile Strength | 7 Mpa | |
| Overcoat time | +5 ~ +48 hours | |
| Elongation | >400% | |
| Water vapour resistance | u = 2.500 | |
| Concrete adherence | >2 MPa | |
| Percentage solids (%) | ShieldSEAL - 90 / ShieldSEAL TOP - 60 | |

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“You’re protected with Shield on your side”



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Benefits

- Cold applied, no heat required.
- Suitable for flat (zero falls) roofs.
- BBA Approved - cert no. 19/5645
- Durable - lasts for 25 years when installed as per manufacturers guidelines.
- When applied to a concrete substrate, it can accept limited foot traffic and light concentrated loads without damage.
- Weather tightness - System will resist passage of moisture into buildings.
- Self terminating.

Storage

- Store unopened in original container in a cool dry place within 5°C - 25°C, out of direct sunlight.
- Protect from frost. Keep away from sources of ignition.
- For transportation purposes ensure that product is upright and the lid fully closed.

Shelf Life: Expires after 12 months, at temperatures between 5°C and 35°C.

Application Instructions

1. Apply when ambient temperature is minimum of 2°C and rising and not exceeding 30°C.
2. Ensure substrate is in good condition, dry, clean and free from dust, moss or lichen.
3. All edge trims to be fixed to substrate prior to application of ShieldSEAL.
4. ShieldSEAL is self-terminating, if brickwork is in good condition, strike a line using tape on the brickwork to coat up to (important: when the ShieldSEAL has been installed ensure the tape is pulled before the ShieldSEAL is dry). If the brickwork is in poor condition a termination bar or flashing is required.
5. Open tin and mix thoroughly before using.
6. Primer not required in most cases, contact us for guidance.
7. Apply ShieldSEAL straight out of the can onto the substrate using a solvent resistant roller. Dry roll ShieldSEAL matting into the product until the ShieldSEAL is drawn through, then immediately apply another coat of ShieldSEAL ensuring the matting is fully embedded avoiding any pinholes.
8. It is advised to start at the perimeter of the area including up-stands to a minimum of 150mm (if possible), ensuring the matting overlaps any trims (including fixings)/ joints/change of material by 50mm.
9. Infill the remaining field area using the same method as above using ShieldSEAL matting, at a minimum coverage rate of 1.5kg per m2 The whole area including trims must be coated to form a continuous seamless membrane. Please take time to make sure no pin holes exist. Drying time will be approx. 2-8 hours depending on weather, fully cured in 24 hours.
10. ShieldSEAL TOP: apply an optional layer of ShieldSEAL TOP topcoat for glossy finish and extended guarantee once the ShieldSEAL is fully cured and no later than 48 hours after ShieldSEAL application.

Disclaimer

The evolution of new product design is continuous and information is subject to change without notice. Customers should check with the supplier to ensure that they have the latest details. Shield Membranes reserve the right to amend the technical information as deemed necessary and in accordance with the relevant national and international standards without notice.

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