



### ShieldTEC Hot Melt Waterproofing System

## Description

ShieldTEC Hot Melt Waterproofing System is a specially formulated combination of high quality bitumen, synthetic rubbers, lightweight fillers and other additives, which is hot-applied with carefully selected reinforcement fabrics and protection layers to give a monolithic waterproofing system.

ShieldTEC provides a tough, flexible, non-tracking, self-sealing waterproof membrane for use on inverted, warm, cold, hybrid, blue and living flat roofs and podium areas. ShieldTEC is also suitable for use as a damp-proof membrane in solid concrete floors or as the waterproofing layer above or below ground in concrete, brick or blockwork structures.

## Benefits

- Hot applied system
- Suitable for completely flat (zero falls) decks.
- BBA Certified No. 17/5459 & 20/5793
- Outstanding durability – lasts the life of the building
- Nominal system thickness of 10mm
- Tough and resistant to impact damage.
- High bond strength to substrate - High tensile strength.
- Monolithic application
- Rapid setting – resistant to rain, snow and frost immediately after application.
- ShieldTEC Hot Melt compound ideally suited for jointing.
- Fully bonded system – Non-tracking

## PRODUCT INFORMATION

### ShieldTEC Hot Melt Compound

A hot applied specially formulated combination of refined polymer-modified bitumen, synthetic rubbers, fillers and other additives.

|                                                            |                                      |
|------------------------------------------------------------|--------------------------------------|
| Unit Size                                                  | 20kg dispersible film covered blocks |
| Approx. coverage<br>(2no. layers @<br>3mm per application) | 6kg/ m2                              |
| Normal laid thickness                                      | 6mm                                  |
| Softening Point                                            | 55 - 85C                             |
| Penetration                                                | 45 - 75mm                            |
| Low Temp Flex                                              | BS EN ISO 1109:2000 - PASS           |
| Flow Resistance                                            | <3mm                                 |

### ShieldPRIME Quick Dry Bitumen Primer

A brush or roller applied bituminous priming solution for the preparation of cementitious surfaces to receive ShieldTEC monolithic membrane.

|                                |           |
|--------------------------------|-----------|
| Drum Size                      | 25 Litres |
| Approx. coverage<br>(Concrete) | 6kg/ m2   |

### ShieldFLEECE

A spunbond polyester reinforcement layer, installed between the two applications of ShieldTEC.

|             |      |
|-------------|------|
| Roll Length | 200m |
| Roll Width  | 1m   |
| Weight m2   | 50g  |

## 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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#### PRODUCT INFORMATION

##### ShieldTEC PS2/4/5 (Inverted roof/ Covered works)

A sand surfaced, polyester based, SBS Modified bitumen membrane, installed as a protection layer in a standard ShieldTEC inverted Roof System.

|             |                   |
|-------------|-------------------|
| Roll Length | 16m / 8m / 8m     |
| Roll Width  | 1m for all grades |
| Weight m2   | 2 / 4 / 5kg       |

##### ShieldFELT (Warm Roof/Exposed Works)

A mineral granule surfaced high performance torch applied bitumen membrane consisting of a 180 g/m<sup>2</sup> polyester base coated with SBS modified bitumen. It has a slate finish on the top surface and thermofusible film on the underside. It is installed as a protection layer to ShieldTEC on exposed upstand details or in a Warm Roof scenario.

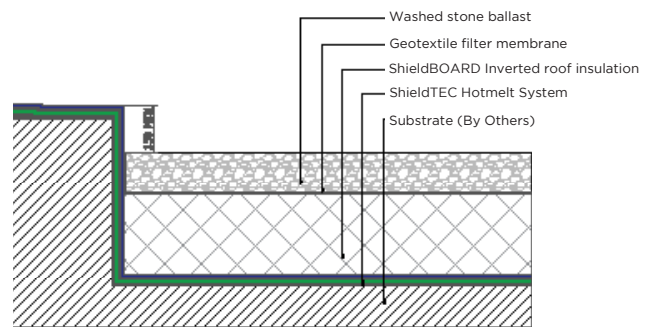
|             |     |
|-------------|-----|
| Roll Length | 8m  |
| Roll Width  | 1m  |
| Weight m2   | 5kg |

##### ShieldROOT M Anti-Root Barrier

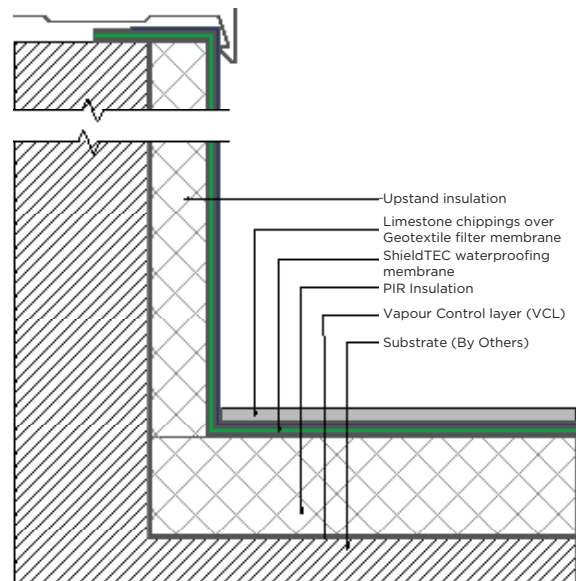
A high performance cap sheet consisting of a high tensile polyester base coated with polymer modified bitumen, containing a specially formulated root resistant additive, for use as the final layer in a roof and podium garden waterproofing specification. ShieldROOT M comes with a slate finish on the upper surface as standard, and a thermofusible film on the underside.

|             |     |
|-------------|-----|
| Roll Length | 8m  |
| Roll Width  | 1m  |
| Weight m2   | 5kg |

#### Typical Design Scenarios



ShieldTEC Inverted System



ShieldTEC Warm Roof System

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