



Xtra-Gard Toughbond 180 Underlay



EN 13707

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0086-CPD-505779

TECHNICAL DATA SHEET

| | |
|-----------------------|------------------|
| Surface Upper | Silica sand |
| Surface Lower | Silica Sand |
| Material | Oxidised bitumen |
| Type of Reinforcement | Polyester |
| Typical Thickness | 1.8mm ±0.2 |

| Characteristic | Test method | Value or statement | Units | Tolerance |
|-------------------------------|----------------|--------------------|--------------------|-----------|
| Visible defects | EN 1850-2 | pass | - | - |
| Length | EN 1848-1 | 20.0 | m | ±0.1 |
| Width | EN 1848-1 | 1.0 | m | ±0.02 |
| Straightness | EN 1848-1 | < 20 | mm/10m | - |
| Mass per unit area | EN 1849-1 | 1.87 | kg·m ⁻² | ±0.1 |
| Effective thickness | EN 1849-2 | NPD | mm | - |
| Water tightness | EN 1928 (B) | pass | - | - |
| External fire performance | EN 13501-5 | NPD | - | - |
| Reaction to fire | EN 13501-1 | Class F | - | - |
| Tensile strength | EN 12311-2 (A) | 700 (MD); 450 (TD) | N/50 mm | ±20% |
| Elongation | EN 12311-2 (A) | 21 (MD); 25 (TD) | % | ±20% |
| Dimensional stability | EN 1107-1 | ≤ 1 | % | - |
| Resistance to Cold Bend | EN 1109 | ≤ -10 | °C | - |
| Flow resistance at elev. temp | EN 1110 | ≥105 | °C | - |

NPD =No Performance Declared. MD = Machine Direction. TD =Transverse Direction.

Description of product

Xtra-Gard Toughbond 180 Underlay is a polyester reinforced oxidised bitumen membrane.

Type of application

Xtra-Gard Toughbond 180 Underlay is intended for use in a bitumen built-up roof system as an underlay/base layer, or as a capsheet beneath a permanent UV protection layer. Application is by the 'pour-and-roll' method. Membranes should be installed in accordance with the manufacturer's guidelines.

Compatibility

The material is compatible with all materials normally used in roofing structures and finishes and may be cut and formed using techniques described in BS8217: 2004. There are no harmful side effects associated with this material. **Hydrocarbon solvent based products, such as naphtha, paraffin and creosote will have a harmful effect and should not be allowed to come into contact with the material.**

Storage & Transportation

Rolls are delivered on pallets, covered with shrink wrapped bag. These materials should, when removed from pallets, be stored upright on a firm flat surface, kept dry and protected from mechanical damage and heat sources. During storage exposure to direct sunlight is to be avoided.

Factory Ref: S0001-01-100

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice.