

X-Pruf TorchOn Membrane

Modified bitumen Waterproofing torch on membrane

Product Description

X-PrufTorchOn Membranes are a range polymer modified bitumen polyester reinforced composite, hot applied heavy duty waterproofing membranes, manufactured with a waterproofing compound made of special grade of bitumen, modified with APP or SBS polymers. While the modifiers enhance the thermal, mechanical, and aging properties of membrane compound.

They are available in various thicknesses and grades as shown below:

X-PrufTorchOn Membrane 3A: 3mm APP polymer

X-PrufTorchOn Membrane 4A: 4mm APP polymer

X-PrufTorchOn Membrane 3S: 3mm SBS polymer

X-PrufTorchOn Membrane 4S: 4mm SBS polymer

The product is available in 3 surface finishes, Polyethylene film, sand and slate.

Anti-root SBS membrane is available on request.

Advantages

- Easy to apply
- Excellent adhesion to vertical and horizontal surfaces
- High tear and puncture resistance
- Resistant to chlorides, sulfates, alkalis and acids
- Water and vapor proof
- Resists 70m hydrostatic head

Uses

- Below grade waterproofing
- Above grade waterproofing
- Waterproofing of concrete slabs
- Roofs waterproofing

Laboratory Test Data

Property	Typical Results
Tensile strength N/5cm EN 12311-1	800L and 600T
Elongation EN 12311-1	40 to 50%
Water absorption ASTM D-5147, UNI 8202/22	<0.15%
Static puncture resistance UNI 8202/11	L4
Dynamic puncture resistance UNI 8202/12	T2
Heat resistance EN1110	3S & 4S 3A & 4A 125C 100C

Important note:

The above test data relates to the complete membrane not individual components such as the compound or reinforcement.

Volatile Organic Content

VOC = 0 g/L

Packaging

X-PrufTorchOn Membranes: 1m wide, 10m long rolls.

Roll Size : 1M * 10 M

X-Pruf Primer S: 15 Kg Pails

X-Pruf Primer WB: 200 Kg Drums

Storage

X-Pruf TorchOn Membranes must be stored in a dry shaded area on wooden pallets covered in a manner that will minimize exposure to sunlight.

Installation Guidelines

X-Pruf TorchOn Membranes should be installed by an NCC X-Calibur Registered Contractor using trained personnel and the correct equipment. For each application NCC X-Calibur will provide a detailed method statement that the Registered Contractor will work to. The method statement must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

Concrete surfaces should be well compacted, float finished and free from cavities and projections. All surfaces shall be dry and free from moisture, frost, surface laitance and contamination.

Priming

X-Pruf Primer S or X-Pruf Primer WB must be applied at the rate of 4 to 6 m² per kg to the substrate and allowed to dry until it is tack free. All surfaces must be re-primed if left for more than 24 hours prior to the application of the membrane.

X-Pruf Primer WB is used where ASTM D41 compliance is not required or low VOC products are needed.

Application

A smooth transition should be made at wall/floor slab junctions using a sand/cement mortar. Corners need to be protected by applying corner pieces prior to installation of the membrane. Align the membrane prior to torching. Side laps should be from 8 – 10 cm, while end laps should be from 12 – 15 cm and to be staggered. Using a propane torch, heat the substrate and the embossed underside of the membrane. As soon as the embossing disappears the membrane is ready for bonding. Roll forward and press

firmly against the substrate to allow the bond to form. On vertical or inclined surfaces, the membrane shall be laid from the lowest level upwards. Care must be taken to ensure that the membrane ends are terminated as not to allow the ingress of water behind the membrane.

Protection of the membrane

X-Pruf ProtectBoard should be installed over the membrane in vertical application immediately after installation when there is a risk of the membrane being subjected to impact damage or left in direct sunlight.

Limitations

Do not apply to concrete that has a surface moisture content of greater than 5%.

X-PrufTorchOn Membranes are not resistant to hydrocarbons such as oil, fuel and solvents.

Handle with care to prevent puncture of the membrane. X-PrufTorchOn Membranes (polyethylene film finish) are not UV resistant.

Do not allow to be exposed to direct sunlight for extended periods. If exposed to direct sunlight use sand or slate finish.

X-Pruf Primer S is flammable.

Do not smoke in the presence of this product.

Health and Safety

This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg

Authorized Technical Specialist

Please note that only NCC X-Calibur Authorized Technical Specialists ('ATs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATs.

Datasheet Validity

NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

Warranties

NCC X-Calibur supplies products that comply with the properties shown on the current datasheets. In the unlikely event that products supplied are proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. NCC X-Calibur does not warrant or guarantee the installation of the products as it does not have control over the installation or end use of the products. Any suspected defects must be reported to NCC X-Calibur in writing within five working days of being detected. NCC X-Calibur Construction Systems Inc. **makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** NCC X-Calibur Construction Systems Inc. shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.



Quality Statement
All Products manufactured by NCC X-CALIBUR or imported from X-CALIBUR companies world-wide are manufactured to procedures certified to conform the quality, environment, systems described in the ISO 14001:2004 , ISO 9001:2000.



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www.x-calibur.us