



DURABLOCK is a premium, liquid-applied, highly permanent elastic, cold applied and cold curing, one component polyurethane membrane used for long-lasting waterproofing. The DURABLOCK is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal, UV and natural element resistance properties. Cures by reaction with ground and air moisture.

**Advantages:**

- Simple application (roller or airless spray).
- When applied forms seamless membrane without joints.
- Resistant to water/frost, to root penetration, (it can be used in green roofs).
- Crack-bridging up to 2mm, even at -10 °C
- Provides water vapor permeability, so the surface can breathe.
- Provides excellent thermal resistance (it never turns soft), weather and UV resistance.
- Waterproofs old bitumen membranes by covering them, without the need to remove them prior to application.
- Provides high sun reflectivity, contributing to thermo insulation.
- Maintains its mechanical properties over a temperature span of -30°C to +90 °C
- Provides excellent adhesion to almost any type of surface.
- The waterproofed surface can be used for domestic and public pedestrian and vehicular traffic.
- Resistant to detergents, oils, seawater and domestic chemicals.
- Even if the membrane gets mechanically damaged, it can be easily repaired locally within minutes.
- Does not need the use of open flames (torch) during application.
- Over 15 years of positive feedback worldwide.

**Usage:**

- Waterproofing of Roofs, Balconies, Terraces and Verandas
- Waterproofing of Pedestrian and Vehicular traffic Decks, Green Roofs, Flowerbeds, Planter Boxes
- Waterproofing of old Bitumen felts, Asphalt felts, EPDM and PVC membranes and old Acrylic coatings.
- Protection of Polyurethane Foam Insulation
- Waterproofing and protection of Concrete constructions/Bridge-Decks, Tunnels, Stadium Stands, etc.

PROPERTY	RESULTS	TEST METHODS
Elongation at Break	> 600 %	ASTM D 412/DIN52455
Tensile Strength	> 4 N/ mm <sup>2</sup>	ASTM D 412/DIN52455
Water Vapor Permeability	> 25 gr/m <sup>2</sup> /day	ISO 9932:91
Resistance to mechanical damage by static impression	High Resistance	EOTA Tech R-007
Resistance to mechanical damage by dynamic impression	High Resistance	EOTA Tech R-006
Resistance to Water Pressure	No Leak (1m water column)	DIN EN 1928

**Application:**

**Surface Preparation:**

Careful surface preparation is essential for optimum finish and durability.

The surface needs to be clean, dry and sound, free of any contamination, which may harmfully affect



the adhesion of the membrane. Maximum moisture content should not exceed 5%. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa. New concrete structures need to dry for at least 28 days. Old, loose coatings, dirt, fats, oils, organic substances and dust need to be removed by a grinding machine. Possible surface irregularities need to be smoothed. Any loose surface pieces and grinding dust need to be thoroughly removed.

**WARNING:** Do not wash surface with water at least 2 days before application!

Repair of cracks and joints:

The careful sealing of existing cracks and joints before the application is extremely important for long lasting waterproofing results.

- Clean concrete cracks and hairline cracks, of dust, residue or other contamination. Fill all prepared cracks with DRYLEX sealant. Then apply a layer of DURABLOCK, 200mm wide centered over all cracks and while wet, cover with a correct cut stripe of fabric. Press it to soak. Then saturate the fabric with enough DURABLOCK, until it is fully covered. Allow 12 hours to cure.
- Clean concrete expansion joints and control joints of dust, residue or other contamination. Widen and deepen joints (cut open) if necessary. The prepared movement joint should have a depth of 10-15 mm. The width: depth ratio of the movement joint should be at a rate of approx. 2:1.

Apply some DRYLEX Joint-Sealant on the bottom of the joint only. Then with a brush, apply a stripe layer of DURABLOCK, 200mm wide centered over and inside the joint. Place fabric over the wet coating and with a suitable tool, press it deep inside the joint, until it is soaked and the joint is fully covered from the inside. Then fully saturate the fabric with enough DURABLOCK. Then place a polyethylene cord of the correct dimensions inside the joint and press it deep inside onto the saturated fabric. Fill the remaining free space of the joint with DRYLEX sealant. Do not cover. Allow 12-18 hours to cure.

**RECOMMENDATION:** We recommend reinforcement of the entire surface, with the Fabric. Use 5-10 cm stripe overlapping.

**ATTENTION:** Do not apply the DURABLOCK over 0.6 mm thickness (dry film) per layer. For best results, the temperature during application and cure should be between 5°C and 35°C. Low temperatures retard cure while high temperature speed up curing. High humidity may affect the final finish.

#### Finishing:

If a color stable and chalking-free surface is desired, apply one or two layers of the DURABLOCK over the DURABLOCK.

**WARNING:** The DURABLOCK is slippery when wet. In order to avoid slipperiness during wet days, sprinkle suitable aggregates onto the still wet coating to create an anti-slip surface. Please contact our R+D Dept. for more details.



**DRYLEX**  
New Generation Solutions

**DURABLOCK**

TECHNICAL DATA SHEET

**Consumption:**

0,6 – 1,0 kg/m<sup>2</sup> applied in two or three layers.

This coverage is based on application by roller onto a smooth surface in optimum conditions. Factors like surface porosity, temperature and application method can alter consumption.

**Packaging - Colors:**

DURABLOCK is supplied in 25 kg, 15 kg, 6 kg, 1kg metal pails. Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight.

**Storage temperature:**

5°-30°C. Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels. The DURABLOCK is supplied in transparent color. Other colors may be supplied on demand.

**Safety measures:**

DURABLOCK contains isocyanates. See information supplied by the manufacturer. Please study the Safety Data sheet ( M.S.D.S.). PROFESSIONAL USE ONLY

**Certifications:**

DURABLOCK was tested by the German state testing institute for construction materials MPA-Braunschweig according the European Union Directive for liquid-applied roof waterproofing kits ETAG 005 and was found conforming. The DURABLOCK was certified by the German state Institute for construction techniques DIBt-Berlin with the European Technical Approval (ETA) and with