



Dura-Systems® Membrane Thix

DESCRIPTION

Dura-Systems Membrane Thix is a polyurethane modified, thixotropic methacrylate resin system that is suitable for creating watertight membranes on a wide variety of substrates. Membrane Thix can also be used for coating on rising or steep inclined surfaces.

PROPERTIES

- Highly flexible
- Good crack bridging
- Very easy to apply
- Application even at low temperatures
- Very good intercoat adhesion
- Quickly treatable

APPLICATION

Dura-Systems Membrane Thix is a urethane modified medium viscosity or thixotropic membrane resin based on an acrylic resin. Dura-Systems Membrane Thix is supplied ready-filled and pigmented. The addition of the Dura-Systems Catalyst triggers curing.

Properly cured Dura-Systems Membrane Thix creates a highly flexible, crack-bridging membrane layer that retains its flexibility even at very low temperatures.

Dura-Systems Membrane can be applied in the temperature range from 0 °C to +30 °C.

PREPARATION OF THE SUBSTRATE

The surface to be coated must be solid, dry, free of dust, grease and oil, as well as firm. Cementitious surfaces may be prepared e.g. by shot-peening. Before applying the Dura-Systems Membrane Thix, always prime the substrate appropriately, possibly including scattering loosely with silica sand of grain size 0.7 – 1.2 mm. Observe the relevant product data sheets on the processing of the primer.

Before application, stir the container in which the product is supplied thoroughly to distribute the paraffin evenly and ensure that the material hardens reliably. The amount of Dura-System Catalyst to be added depends on the temperature. Please refer to the table "Catalyst dosages" for the relevant values.

GUIDELINE RECIPE AND BATCH QUANTITIES

Component	Guideline recipe (% by weight)	Comments	Batch size
Dura-Systems Membrane Thixw	100%		10kg
Total	100%	Average consumption: 1.3 kg/m² per mm thickness	10kg
Catalyst	1.0 - 6% related to Dura-Systems Membrane	See "Catalyst dosages" table for quantities	100 - 600g

TECHNICAL CHARACTERISTICS (LIQUID STATE)

Property	Value	Method
Viscosity:	2000 - 3000 mPa * s	DIN 53015
Density D ₄ ²⁰	1.13 g/cm ³	EN ISO 2811-2
Flash Point:	10°C	DIN 51757
Pot life at 20°C (100g, 3% pbw. catalyst)	approx. 15 min	
Processing temperature	+0°C to + 30°C	

TECHNICAL CHARACTERISTICS (SOLID STATE)

Property	Value	Method
Adhesive pull strength	> 2 N/mm ²	EN ISO 527
Tensile stress at break	3.3 N/mm ²	EN ISO 527
Crack bridging	1.55 mm	
Elongation at break	157%	EN ISO 527

CATALYST DOSAGES

Temperature	Catalyst powder % pbw.*	Pot life approx. min.	Hardening time approx. min.
+0°C	6.0	20	80
+10°C	4.0	15	60
+20°C	2.0	15	60
+30°C	1.0	8	40

Dura-Systems[®] Membrane Thix

*The quantity of catalyst is always related to the quantity of resin.
Please contact our Technical Service Department for further details.

SAFETY ADVICE

Wear suitable protective clothing (gloves and goggles) when applying. Avoid contact with the eyes and skin. For further information, please refer to the safety data sheet

SHELF LIFE

6 months if stored in the unopened original container in a cool (< 25 °C), dry and frost-free location. The optimal storage temperature is +15 °C to +20 °C. Do not expose to direct sunlight!

DISPOSAL

Fully hardened material can be disposed of as domestic refuse.
Recycle completely empty containers
Dispose of liquid material as waste paint that contains solvents or other dangerous substances (EWC 080111).