

# Denpur™ RM

## Polyurethane Waterproofing Membrane

### DESCRIPTION

**Denpur™ RM** is a solvent free, high viscosity, two component polyurethane resin based waterproofing membrane.

### FEATURES AND BENEFITS

- High Viscosity for thick builds
- High abrasion resistance
- Crack bridging properties
- Easy to apply
- Excellent bond to substrate

### FIELDS OF APPLICATION

**Denpur™ RM** is designed for use as a waterproof membrane for existing roofs.

### SUBSTRATE PREPARATION

All substrates must be structurally sound, clean and dry and free from oil, grease and loose material and any other contamination which might impair adhesion.

If required, the substrate should be primed with a primer such as **Denpur™ LVP** prior to application.

The tensile strength of the substrate should exceed 1.5MPa. The residual moisture content should be less than 4%.

**Denpur™ RM** should be applied when substrate temperatures are constant or

falling to minimise the risk bubble and void formation due to expansion of air within the substrate when temperatures are rising. This is particularly important to note on external applications.

The curing reactions are influenced by the ambient, material and substrate temperatures. Low temperatures lengthen the pot life, open- and curing times. High temperatures shorten pot life, open- and curing times. The temperatures should not fall below the minimum stated until the material is fully cured. The temperature of the substrate must be at least 3°C above the dew point both during the application and for at least a further 24 hours (at 15°C).

### APPLICATION

**Denpur™ RM** is supplied in prepacked units. Before mixing, precondition both A and B components to a temperature of approximately 15 to 20°C. Pour the entire contents of part B into the container of part A. Mix with a low speed (ca.300 rpm) electric drill and paddle for at least 3 minutes until homogeneous. Scrape the sides and the bottom of the container several times during mixing to ensure complete mixing. Keep the mixing head submerged to avoid entrapping air.

Do not work out of the original container. Decant the mixed material into a fresh container and remix for another minute.

**Denpur™ RM** is applied by long haired paint roller.

### CONSUMPTION

**Denpur™ RM**: Typically 1 -2 kg/m<sup>2</sup> depending on build thickness.

### CLEANING AGENT

Tools must be cleaned immediately after use with **Dencoat™ Tool Cleaner** or other suitable solvent.

### PACKAGING

**Denpur™ RM** is supplied in 21 kg sets. **Denpur™ RM** is used with **Denpur™ Hardener** in appropriate quantity.

### SHELF LIFE

Minimum 12 months stored in original containers under dry conditions at a temperature between 15-20°C. Do not expose to direct sunlight.

## Technical data for Liquid material

Property	Method	Values
Mixing Ratio A:B		16 kg : 5 kg
Mixed density		1.30 kg/l
Mixed Viscosity at 23°C	Brookfield DV-II	3000 cP
Working time at 23°C		20 minutes
Ready for traffic at 23°C		12 hours
Fully cured 23°C		7 days
Substrate temperature		Min 5°C max 30°C
Max relative humidity		Max 85%

## Technical data cured material

Property	Method	Values
System thickness		Approx. 1 - 2 mm
SHORE A hardness	DIN 53505	48
Adhesive strength at T <sub>norm</sub>	DIN EN 1542	≥ 4.0 N/mm <sup>2</sup>
Adhesive strength after freeze-thaw with de-icing salt	DIN EN 13687-1 and -2	≥ 2.3 N/mm <sup>2</sup>
Dynamic crack bridging (-20°C)	DIN EN 1062-7	IV <sub>T+V</sub> (B4.2)
Grip and slip resistant	DIN EN 13036-4, DIN 51130	55 Skt R11-V4 and R12-V6 or R13 V10
Chemical resistance	DIN EN 13529	Test liquids DiBT No. 1, 3, 10
Abrasion resistance (H22 Wheel)	DIN ISO 9352, ASTM D 1044	<1500 mg/1000 U
Impact resistance	DIN EN ISO 6772-2	4 Nm - no cracks
Fire class	EN 13501-1	B <sub>fl</sub> -s1
Water penetration		Impervious
Temperature resistance		Max 90°C



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22<sup>1)</sup>

RM - 001

EN 13813 SR-AR1-B1,5-IR4

Synthetic resins for external uses  
(Application in accordance with the newest technical information)

Reaction to fire:	D <sub>fl</sub>
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD <sup>2)</sup>
Wear resistance (Abrasion Resistance):	< AR 1 <sup>3)</sup>
Bond strength:	> B 1,5
Impact resistance:	< IR 4
Sound insulation:	NPD <sup>2)</sup>
Sound absorption:	NPD <sup>2)</sup>
Thermal resistance:	NPD <sup>2)</sup>
Chemical resistance:	NPD <sup>2)</sup>

## CE-labelling

- 1) Last two digits of the year in which the ce marking was affixed.
- 2) NPD = No performance determined.
- 3) Refers to a smooth surface without broadcasting.

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