

Dencryl™ M41

High flexible resin for water proofings on concrete

Description

Dencryl™ M41 resin is a modified methacrylate resin of high flexibility which is suitable for water proofings on interior and exterior concrete surfaces.

Dencryl™ M41 resin is permanent flexible and can follow thermic movements of the concrete. As a result of the high flexibility water proofings appear a little bit tacky on its own surface and might lead to a certain absorbancy of air dust-polution like any other materials. This fact can be ignored when the membrane layer anyway will be overlayed by another concrete screed or tiles. For better light stability always add a small amount of 2 - 5 %

Dencryl™ M41 Pigment Powder.

In order to work out an individual solution for your job please contact our Technical Department for detailed informations.

Application

Membranes or water proofings requiring an approval for overlays made of concrete screed or tiles i.e. for balconies, swimming pools, bath rooms

or other concrete floor constructions.

After preparing the concrete surface according to the technical rules (ball blasting, grinding, cleaning etc) apply first the primer **Dencryl™ M41** resin as normally. After curing apply the coating mixture according to the formulation given in table 1. Depending on your skill and experience different tools to spread the coating material can be used, such like Mohair-rollers, comb trowel or smooth trowel. It is important to avoid blisters during the application. Two layers of 1 - 1,5 mm each will be necessary. Also consider to apply the material up the walls, columns or ixed machineries atleast 5 - 10 cm to avoid water leakage. In case of overlaying with tiles the last coating surface must be sprinkled fully with **Dencryl™ M41 Filler** QS 0,7 - 1,2 mm to provide a good bond to the tile adhesive mortar. Self stable concrete screeds of more than 5 cm thickness can be layed on directly without sand sprinkling. The total thickness of the water proofing membrane will be appr. 2 - 2,5 mm.

For these application areas we can provide German Approvals for the following classes:

Application Area A: Water spillage on wet surfaces on floors (A2) and walls (A1) caused by cleaning water or water of natural use, such like swimming pool surroundings or in public bath or shower rooms.

Application Area B: Interior and exterior wall and floor surfaces of swimming pools filled with water of drinking category. For special salt waters used for medical purpose an individual approval will be necessary.

Application Area C: Walls- and floor surfaces in commercial establishments, also in connection with light chemicals (i.e. car wash, kitchens, canteens, food precessing) except for those chemicals which require special and additional approvals (regulations concerning the ground water protection act § 19 WHG).

Dencryl™ M41 waterproofing also meets the technical requirements underneath of **Dencryl™** coating system B and C which is not included in the approval as the above mentioned approval does not cover this application.

Water proofings made of **Dencryl™ M41** resin on concrete roofs without additional coverings made of concrete screeds or tiles will have to pass additional national testings and approvals depending on the country's

regulations and requirements. **Dencryl™** can not provide approvals for this applications.

Guideline recipe and batch quantities

Item	Component	Guideline recipe (% by weight)	Comments	Batch for 10 litre bucket	
1	Dencryl™ M41	75 %		7.4 kg	7.4 litres
2	Dencoat™ Floor Filler	20 %		2 kg	Approx. 2.1 litres
3	Dencoat™ Pigment Powder	5 %		500 g	
Total:		100 %	Average consumption: 1.3 g/m² per mm thickness	10 kg	approx. 7.7 litres
4	Dencryl™ Hardening Powder	1 – 6 %	See "Hardener dosages" table for quantities	75 – 450 g	

The mixing device (dissolver) must be EX-proof. Stir moderately to avoid self heating during the process (max. +35°C).


Characteristics of Dencryl™ M41 as delivered

Property	Measuring method	Approx. value
Viscosity at +20°C	DIN 53 015	300 - 500 mPa·s
Flow time at +20°C, 4 mm cup	ISO 2431	80 – 110 sec.
Density D ₄ ²⁰	DIN 51 757	0.99 g/cm ³
Flash point	DIN 51 755	+10°C
Pot life at +20°C (100 g, 2 % pbw. hardening powder)		12 - 15 min.
Application temperature		0°C to +30°C
Ultimate elongation when hardened		180 % at +23°C

Hardener dosages

Temperature	Hardening powder % pbw. *	Pot life approx. min.	Hardening time approx. min.
0°C	6.0	20	80
+5°C	5.0	20	60
+10°C	4.0	15	40
+15°C	3.0	15	40
+20°C	2.0	15	40
+25°C	1.5	10	30
+30°C	1.0	8	25

* The quantity of hardening powder is always related to the quantity of resin.

	
DenCoat - Calle Paraguay 14/2 - 35204 Vigo - Pontevedra - Spain	
10 ¹⁾	
M43 - 001	
EN 13813 SR-ART-B1,5-IR4	
Synthetic resins for internal uses (Application in accordance with the newest technical information)	
Reaction to fire:	E II
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD ²⁾
Wear resistance (Abrasion Resistance):	AR 1 ³⁾
Bond strength:	B 1,5
Impact resistance:	IR 4
Sound insulation:	NPD ²⁾
Sound absorption:	NPD ²⁾
Thermal resistance:	NPD ²⁾
Chemical resistance:	NPD ²⁾

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.

DenCoat™ Phone: +45 88 44 22 27 · E-mail: info@dencoat.com · Website: www.dencoat.com

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to the technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out by only qualified experts in the sole responsibility of a customer. Please contact DenCoat for the latest version. All our documents, offers, ect. are in association with our general sales, delivery and application conditions.