

Technical Information Sheet Article No. 6500

Concrete Acrylic

Acrylic methacrylic acid ester-copolymer-dispersion with fillers and pigments. Plasticiser-free.

Test Certificates:

Official Material Testing Institute, TU Brunswick, Nr. 851962, Nr. 57005, Nr. 57 5005-1 Nr. 57 5005-2

Ibac - Institute for Construction Research, TU Aachen, Nr. 2431/B Surface Protection System, class OS-B in compliance with TL/TP OS of ZTV-SIB

Range of use

According to the Official Materials Testing Institute for the Construction Industry at the TU Brunswick and Ibac, TU Aachen, Remmers Concrete Acrylic meets the requirements for use as a CO₂ inhibiting and water repelling protective coating for renovation and repair measures on concrete surfaces, especially when used in combination with Funcosil BI. Cement-bound render surfaces and fibrated cement boards can also be coated with Concrete Acrylic.

Property profile

Because of its high standard of development, Concrete Acrylic is distinguished by a wide range of properties.

In spite of its high CO₂ diffusion resistance, Concrete Acrylic coatings are relatively water vapour diffusion open. Concrete Acrylic protects the substrate in an optimal way against rain. The coating is driving rain and splash water tight. The material is also non-yellowing, extremely weather resistant, completely saponification stable and easy-to-use. Because of its good flexibility, slight hair cracks in the substrate can be covered with just two coats.

Concrete Acrylic also has very good hiding power. Good adhesion to old and new fair-faced concrete as well as restored concrete surfaces and coating compatibility with old, load-bearing, cementitious or synthetic resin bound coatings make Concrete Acrylic ideal for a wide range of applications.

Substrate

Substrate pre-treatment:

Substrates must be load-bearing, free of soiling (surface laitance), micro-organism infestation (alga, lichen, moss), cracks (with the exception of hair cracks) and substances with a separating effect.

Directions

Prime cement bound renders surfaces, non-sanding, load-bearing substrates such as concrete with Remmers Impregnation Primer. Application rate: 0.10 - 0.30 l/m², depending on absorbency.

Prime weathered, sanding, cement bound render surfaces and fibrated cement sheets as well as weathered coats of silicate paint with Primer SV or, as an alternative, with Hydro Deep primer. Application rate approx. 0.20 l/m²

Finishing coat:

Depending on the condition of the substrate, 2-3 coats are applied for all of the named substrates. The application rate is approx. 0.20 l/m² per coat, depending on the absorbency of the substrate.



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Characteristic data of the product

Binders:	100 % pure acrylate
Pigments:	light fast, alkali resistant oxide pigments, or titanium oxide
Extender:	cementitious fillers
Viscosity:	approx. 3000 mPas
Density:	approx. 1.3 g / cm ³
pH value:	9.0
Thinning agent:	water
Colours:	6500 white 6529 special colours 6530 colours according to the Funcosil colour collection

Characteristic data of the coating:

Water vapour permeability according to DIN 52615:	$S_d \leq 0.3 \text{ m}$
CO ₂ permeability according to DIN 52615:	$S_d = 252 \text{ m}$
Water absorption according to DIN 52617:	$w \leq 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$ These values refer to a 2-layer coating with a dry layer thickness of 140 μ
Weather resistance:	very good
Surface structure:	smooth
Degree of gloss:	silk matt

Notes

When applying more than one coat, a drying time of at least 8 hours should be observed between working operations. Remmers Concrete Acrylic should not be used in direct sunlight or at temperatures below +5°C in compliance with the rules of the trade. Protect the fresh coating from rain.

Tools, cleaning

Brushes, lamb skin roller, airless spraying equipment. All tools, equipment and splashed material should be cleaned with water while fresh.

Packaging, application rate, shelf-life**Packaging:**

5 l and 15 l plastic buckets

Application rate:

150 - 200 ml/m² per coat, dependent on the condition of the substrate.

Shelf-life:

At least 12 months stored frost-free in unopened, original containers protected from direct sunlight.

Safety, ecology, disposal

Further information on safety when transporting, storing and handling as well as disposal and ecology are found in the latest Safety Data Sheet.

Product code

M-DF 02

**1119 – CPD - 0818**

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09 ¹⁾**EN 1504-2**

Surface protection products
Coatings

Cross-cut test	≤ GT2
CO ₂ permeability	s_d value > 50 m
Water vapour permeability	Class I, < 5 m
Capillary water absorption and water permeability	$w < 0,1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})$
Pull-off test, without traffic load	≥ 1,0 N/mm ²
Resistance to fluctuating temperatures	≥ 1,0 N/mm ²
Behaviour under fire	B1
Artificial weathering	No visible defects

¹⁾ the last numbers of the year in which the CE certification was issued.

The statements above are compiled from our field of production and according to the latest technological developments and application techniques.

Since application and working are beyond our control, no liability of the producer can be derived from the contents of this information sheet. Any statements made beyond the contents of this information must be confirmed in writing by the producer.

In all cases, our general conditions of sale are valid. With the publication of this Technical Information Sheet all previous editions are no longer valid.

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