



## Technical Data Sheet Art. No. 6500

# Concrete Acrylic

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

Test certificates

- Kiwa Polymer Institut GmbH
- BASt listed surface protection system for bridges and civil engineering structures
- Tested according to DIN EN 1504 – OS 2 (OS-B) and OS 4 (OS-C) according to DIN V 18026



Water based



For use indoors and outdoors



Working temperature



Brush/roller  
airless/airmix  
spraying



Application rate per coat



Store frost-free and cool, protected from moisture in



Shelf-life



### Range of use

Remmers Concrete Acrylic, particularly when combined with Remmers Impregnation Primer, meets the requirements for use as a CO<sub>2</sub> inhibiting and water repelling protective coating for renovation and repair measures on concrete surfaces.

Cement-bound render surfaces and fibrated cement boards can also be coated with Concrete Acrylic.

### Property profile

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

In spite of its high CO<sub>2</sub> diffusion resistance, Concrete Acrylic coatings have good water vapour diffusion values.

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 and completely saponification stable.

### Characteristic data of the product

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

### Characteristic data of the coating:

Water vapour permeability according to DIN EN ISO 7783-2:	$S_d \leq 0.3 \text{ m}$
CO <sub>2</sub> permeability according to DIN EN 1062-6:	$S_d = 252 \text{ m}$
Water absorption coefficient according to DIN EN 1062-3:	$w \leq 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$
These values refer to a two-layer coating with a dry layer thickness of 140 µ	
Weather resistance:	very good
Surface structure:	smooth
Degree of gloss:	silk matt

The material is easy to apply. Thanks to its high quality, small, static hair cracks in the substrate are bridged with two coats. Con-

crete 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.

### Surface protection systems

#### Remmers OS-B / OS 2 system

- Impregnation Primer + Concrete Acrylic

#### Remmers OS-C / OS 4 system

- Betofix-Filler + Concrete Acrylic

- OS Concre-Fill + Concrete Acrylic

### Substrate

#### Substrate pre-treatment:

Substrates must be load-bearing, free of soiling (cement grout), micro-organisms (alga, lichen, moss), cracks (with the exception of hair cracks) and substances that could interfere with adhesion.

### Directions

Treat cement bound renders surfaces, non-sanding, load-bearing substrates such as concrete with Remmers Impregnation Primer.

Application rate: 0.10 - 0.30 l/m<sup>2</sup>, 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/m<sup>2</sup>

#### Finishing coat:

Depending on the condition of the substrate, apply 2-3 coats on all of the named substrates. The application rate is approx. 0.20 l/m<sup>2</sup> per coat, depending on the absorbency of the substrate.

### 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

Brush, lamb skin roller, airless spraying equipment. Clean tools, equipment and any splashed material with water while fresh.

### Packaging, application rate, storage

#### Packaging:

5 l and 15 l plastic buckets

#### Application rate:

Approx. 200 ml/m<sup>2</sup> 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.

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





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GBI F 020-3

**EN 1504-2:2004**

Surface protection product – coating

Cross-cut test	≤ GT 2
CO <sub>2</sub> permeability	s <sub>D</sub> > 50 m
Water vapour permeability	Class I
Capillary water absorption and water permeability	w < 0.1 kg/m <sup>2</sup> x h <sup>0.5</sup>
Compatibility with alternating temperatures	≥ 1.0 (0.7) <sup>1)</sup> N/mm <sup>2</sup>
Pull off test to assess adhesive pull strength	≥ 1.0 (0.7) <sup>1)</sup> N/mm <sup>2</sup>
Reaction to fire	Class E
Artificial weathering	No visible errors

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

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