



## PRODUCT INFORMATION

### COROFLAKE 300 M

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#### PRODUCT DESCRIPTION

**COROFLAKE 300 M** is a combination of a glass mat reinforced laminate lining and a filled top coat based on a highly chemically resistant Novolac epoxy resin. Due to its very good mechanical properties, **COROFLAKE 300 M** can bridge cracks in concrete up to 0.3 mm in accordance with the DIBt construction and testing principles.

#### COATING BUILD-UP

The coating consists of a two-component primer, a three-component base coat, a two-component laminate layer with a 300 g/m<sup>2</sup> glass mat and a 26 g/m<sup>2</sup> C-glass veil and at least one layer of the two-component **COROFLAKE 300** top coat. Depending on the existing load, the total dry film thickness to be applied is approx. 2.0 - 3.0 mm.

#### FIELDS OF APPLICATION

**COROFLAKE 300 M** is the ideal material for concrete structures such as floors, concrete pits, secondary containment basins and gutters that are exposed to alkalis and acids. **COROFLAKE 300 M** is characterised by very good resistance to concentrated sulphuric acid and 50% caustic soda.

#### FEATURES

- Excellent chemical resistance to sulphuric acid (70-98%) and caustic soda (50%)
- Solvent free
- Crack-bridging properties
- Very good adhesion to concrete

#### CHEMICAL RESISTANCE

Requests for chemical resistance can be sent to [awt@tiptop-elbe.de](mailto:awt@tiptop-elbe.de).

#### SUBSTRATE

Substrates are components made of concrete, screed or plaster. The components must be designed and manufactured in accordance with EN 14879-1. The substrate must remain dry during application.

#### SURFACE PRE-TREATMENT

EN 14879-1 and the TIP TOP specification "Requirements for concrete structures and cementitious substrates" must be observed. The substrate must be prepared by suitable measures so that it is dry, free of cement slurries, cement skin, loose and friable parts, structural defects and substances with a separating effect. The residual moisture of cementitious substrates must not exceed 4%.

#### CLIMATIC CONDITIONS

During application, direct or indirect sunlight must be avoided and the climatic conditions specified in the application instruction must be observed. To avoid condensation, a dew point difference of at least 3K must be maintained. During application, the materials must never be colder than the ambient temperature at the workplace.

#### MIXING RATIO

The primer and coating materials are delivered to the construction site in mixing units so that there is no need to weigh or measure the individual components. After mixing a unit, it must be applied within the specified pot life.

Primer	Weight parts	Volume parts
LINING 300 RESIN	100	100
HARDENER No. 8	33	35.8

Base coat	Weight parts	Volume parts
LINING 300 RESIN	100	100
HARDENER No. 8	33	35.8
FILLER F1	310	330

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#### MIXING RATIO

Laminate layer	Weight parts	Volume parts
<b>LINING 300 RESIN</b>	100	100
<b>HARDENER No. 8</b>	33	35.8

  

Top coat / sealing	Weight parts	Volume parts
<b>COROFLAKE 300 COMP. A</b>	100	100
<b>COROFLAKE 300 COMP. B</b>	40	43.5

#### APPLICATION METHOD | CONSUMPTION

Always observe the current application instruction before using the products. During coating work, direct or indirect sunlight must be avoided absolutely. When exposed to the weather, the tendency of epoxy resin coatings to chalk should be noted, especially with light colours.

On the primed surface, apply the base coat approx. 1.0 - 1.5 mm thick evenly with a smoothing trowel and immediately apply the 300 g/m<sup>2</sup> glass mat, soak with resin solution and work in with a laminating roller. A 26 g/m<sup>2</sup> C-glass veil is then applied fresh in fresh as a cover using a laminating roller.

Finally, at least one layer of **COROFLAKE 300** is applied as a top coat using the airless spraying method. The recommended dry film thickness is approx. 400 - 600 µm per layer. Exposure to sulphuric acid will cause discolouration of the coating. The terra colour should therefore always be used for the final top coat.

Primer	Application	Consumption
<b>LINING 300 RESIN</b>	Roll / brush / airless spray	ca. 300 g/m <sup>2</sup>

  

Base coat	Application	Consumption
<b>LINING 300 RESIN FILLER F1</b>	Trowel	ca. 1000 g/m <sup>2</sup> ca. 2400 g/m <sup>2</sup>

  

Laminate layer	Application	Consumption
<b>LINING 300 RESIN</b> 1 x Glass mat 300 g/m <sup>2</sup> 1 x Glass veil 26 g/m <sup>2</sup>	Roll	ca. 660 g/m <sup>2</sup> ca. 330 g/m <sup>2</sup> ca. 30 g/m <sup>2</sup>

  

Top coat	Application	Consumption
<b>COROFLAKE 300</b>	Airless spray / roll / brush	ca. 500 - 750 g/m <sup>2</sup>

The consumption indicated is an average value. The actual consumption depends on the object geometry and the application method. It can therefore vary.

#### POT LIFE | RECOAT TIME

Product	Working time			Recoat time (20°C)	
	15°C	20°C	30°C	Min.	Max.
<b>LINING 300 RESIN</b>	45 min	30 min	15 min	12 h	7 d
<b>COROFLAKE 300</b>	50 min	35 min	20 min	12 h	7 d

#### CLEANING

All equipment should be cleaned with **SOLVENT T-200** immediately after use. The equipment should be cleaned in a well-ventilated area. It is recommended to flush the spraying equipment several times during the working day. The frequency of cleaning depends on the spray volume, temperature and elapsed time, including possible delays.

#### SPARK TEST

The spark test is carried out in accordance with EN 14879-2 using a high-voltage tester. The previously measured average dry film thickness is the basis for the test voltage. The test is carried out at the earliest 24 hours after fin-

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ishing the top coat at a curing temperature of +20°C.

Product	Test voltage
COROFLAKE 300 M	0,5 kV / 100 µm DFT

#### DELIVERY FORM | MINIMUM SHELF LIFE

Product	Packaging	Article No.	Storage temperature	Min. shelf life
C-GLASS VEIL T1777C - 26 g/m <sup>2</sup>	250 m <sup>2</sup>	590 9800	-	-
COROFLAKE 300 COMP. A - BEIGE	18 kg	590 2320	5 - 25°C	12 Mon
COROFLAKE 300 COMP. A - TERRA	18 kg	590 2300	5 - 25°C	12 Mon
COROFLAKE 300 COMP. B	7.2 kg	590 2340	5 - 25°C	12 Mon
E-GLASS MATT M-123-300 g/m <sup>2</sup>	1 m <sup>2</sup>	590 0300	-	-
FILLER F1	25 kg	591 0140	-	24 Mon
HARDENER No. 8	2.48 kg	590 3790	5 - 25°C	12 Mon
LINING 300 RESIN	7.5 kg	590 3780	5 - 25°C	12 Mon
SOLVENT T-200	4 kg	590 0610	5 - 25°C	60 Mon
SOLVENT T-200	8 kg	590 0611	5 - 25°C	60 Mon

#### SAFETY MEASURES

The safety data sheets for the individual components and the legal regulations for handling hazardous substances must be observed. The prescribed personal protective equipment must be worn. Information on disposal can be found in the safety data sheets for the individual products. The safety data sheets can be downloaded from our homepage in the download area.

#### PHYSICAL DATA

Properties	Standard	Unit	Value
Adhesive strength concrete	EN ISO 4624 (ASTM D7234)	N/mm <sup>2</sup>	1.5*
Max. Temperature dry (flue gases)	-	°C	+95
Max. Temperature for liquids	-	°C	+60
Shore hardness	ISO 48-4 (ASTM D2240)	Shore D	≥ 80

The specified temperatures depend on the existing load and can therefore vary.

\* Depending on the concrete strength

Information given in the fact sheet above corresponds to the current knowledge available to us regarding our products at the time of its drafting and is intended as a guideline for informational purposes. However, because of the multiple possibilities regarding possible applications, processing and on site conditions, any information given in the fact sheet above is not legally binding, in particular, without being limited to, such information shall not be interpreted as a warranty of merchantability or of fitness for a particular purpose. Customer therefore is advised to conduct its own testing or make an inquiry with our technical department before ordering. We reserve the right to change the product at any time, in particular, without being limited to, minor changes because of advancements in technology. If by way of exception, the information given in the fact sheet above is incorporated by reference into any contract concluded with us under German Law, such information, shall only be interpreted as determining the specific requirements of the contractual products as set out in § 434 BGB (German Civil Code) and shall not be interpreted as constituting a guarantee of condition.