

EmceColor-flex

Ready-to-use, crack-bridging, pigmented surface protection system

Product Properties

- Water-based pure acrylate
- Weather and UV-resistant
- Resistant to temperature changes and de-icing salts
- Open to vapour diffusion, reduces carbonation
- Non-flammable, building material class A2-s1, d0 according to EN 13501-1 (product system test)
- Tested and approved according to DIN V 18026 as OS 5a system
- Certified in accordance with EN 1504 part 2

Areas of Application

- Concrete protection system against aggressive pollutants
- Surface protection for non-accessible and non driven on exterior areas
- Architectural colour design on fair-facade concrete structures
- Suitable for use in areas sprayed with de-icing salts
- REACh-assessed exposure scenarios: periodical water-contact, periodical inhalation, application
- Principle 1, 2 and 8; procedure 1.3, 2.2 and 8.2 (EN 1504-9)

Application

Substrate Preparation

See leaflet "General Application Advice - Surface Protection Systems".

Application

The surface protection system EmceColor-flex consists of EmceColor-flex E and EmceColor-flex S. All EmceColor-flex products are ready-to-use and must be mixed thoroughly before use.

Application by roller, airless spraying or by using worm pumps with variably adjustable discharge flow. For spraying application please ask for our assistance or see the equipment planner.

Application must not proceed during rain, high air humidity, frost or frost-threat. Freshly laid layers must be protected from dew, fog, rain and frost.

Standard System

EmceColor-flex is always applied in two layers on all fine fillers of the Nafufill-range. EmceColor-flex is officially tested and approved in combination with Zentrifix F 92 (polymer-cement-mix), Zentrifix CR finish and with the fine fillers Nafufill KM 103 and Nafufill KM 110.

Special System

On all other substrates priming with Betonflair Uniprimer is necessary before application. Then

EmceColor-flex is applied as in the standard system.

Overcoating Times, Rain Resistance

See table "Technical Data".

General Information

Coverage rates depend on condition of the substrate which may lead to over- or under-consumption. Please observe the surface roughness surcharges indicated in the Application Advice.

The colouring effect on the object also depends on a number of factors, e.g. the light, the perspective, the surrounding and substrate conditions (smooth/rough, absorbent/impervious). The colouring effect is therefore often a matter of subjective judgement. Choosing a shade from a small colour chart is very difficult. We therefore recommend to apply a trial area with the chosen system/colour code. Joining areas should only be applied with material from the same batch.

Depending on the chosen shade, e.g. bright yellow or bright red, there might be differences in the opacity. It might therefore be necessary to apply two top coats. Smoothly moulded substrates usually also need two top coats.

Technical Data for EmceColor-flex

Characteristic	Unit	Value*	Comments
Density	kg/dm ³	1.02 1.40	Betonflair Uniprimer EmceColor-flex E and S
Touch-dry	hour hours	approx. 1 approx. 4	Betonflair Uniprimer EmceColor-flex E and S
Overcoating time	hours hours	approx. 1 approx. 12	Betonflair Uniprimer Betonflair Uniprimer/EmceColor-flex E EmceColor-flex E/EmceColor-flex S
Diffusion resistance against water vapour	m	0.58	at 300 µm dry layer thickness
Diffusion resistance against carbon dioxide	m	> 500	at 300 µm dry layer thickness
Crack-bridging category acc. to DIN V 18026	- 20 °C	B2	at 300 µm dry layer thickness
Coverage**	ml/m ²	approx. 100 approx. 280 approx. 280	Betonflair Uniprimer EmceColor-flex E EmceColor-flex S
Solid content	%	55	EmceColor-flex E and S
Rain proof	hours	approx. 24	EmceColor-flex E and S
Application conditions	°C % K	≥ 8 - ≤ 30 ≤ 85 3	air, material and substrate temperature relative humidity above dew point

Product Characteristics for EmceColor-flex

Delivery	Betonflair Uniprimer - 10 litre packs EmceColor-flex E and EmceColor-flex S - 17.5 litre packs and 120 litre barrels
Storage	Can be stored for at least one year in original unopened packs. Keep dry and cool and protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint standard)	EmceColor-flex E: RL2004/42/EG All/j (75/40 g/l) max 18 g/l VOC EmceColor-flex S: RL2004/42/EG All/j (75/40 g/l) max 18 g/l VOC

* All figures have been determined at 23 °C and 50 % relative humidity

** The coverage rates depend on the roughness, the absorbency and the kind of substrate. To determine the object-specific coverage, we advise preparing a sample area.

Note: The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 07/13. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.