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
- Applicable by roller or spraying
- Tested and approved according to ZTV-ING, part 3, paragraph 4 as OS-DII 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 1.2, 2.2 and 8.1 (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) 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.

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.

MC-Bauchemie • Am Kruppwald 1-8 • 46238 Bottrop • Tel. +49 (0) 2041-101 10 • Fax: +49 (0) 2041-101 188
info@mc-bauchemie.de • www.mc-bauchemie.de

Technical Data for EmceColor-flex

Characteristic	Unit	Value*	Comments
Density	kg/dm³	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		I_T	at 300 µm dry layer thickness
Coverage**	ml/m² ml/m²	approx. 100 approx. 280	Betonflair Uniprimer EmceColor-flex E and S
Solid content	%	55	EmceColor-flex E and S
Rain proof	hours	approx. 24	EmceColor-flex E and S
Application conditions	°C % K	≥ 5 - ≤ 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. Please note the surface roughness additions in the “Official Test Certificate”.

Edition 04/09. 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.

MC-Bauchemie • Am Kruppwald 1-8 • 46238 Bottrop • Tel. +49 (0) 2041-101 10 • Fax: +49 (0) 2041-101 188
info@mc-bauchemie.de • www.mc-bauchemie.de