

MC-Color Flex pure

Pigmented, flexible coating



PRODUCT PROPERTIES

- Ready-to-use, water-based pure acrylate dispersion
- Film-forming, matt when dried
- Open to water vapour diffusion and carbonation-retarding
- Colour-proof as resistant to UV and weathering
- Resistant to elevated temperatures, frost and de-icing salts
- Resistant to staining
- Non-flammable, building material class A2-s1, d0 according to EN 13501-1 (product system test)
- Registered with DGNB (Code: ST4PUD)
- Good flexibility at low temperatures
- Crack-bridging class B 2
- Application by roller and airless spraying
- Tested and approved as OS 5a surface protection system

AREAS OF APPLICATION

- Crack-bridging concrete protection for exterior surfaces exposed to weathering
- Surface protection for non-accessible and non-driven-on exterior areas
- Suitable for spray and splash zones of de-icing salts
- REACH-assessed exposure scenarios: periodical water-contact, periodical inhalation, application
- Certified in accordance with EN 1504 part 2 for principles 1, 2 and 8, procedure 1.3, 2.3, 8.3

APPLICATION ADVICE

Substrate preparation: See leaflet “General Application Advice - Surface Protection Systems”.

Application: MC-Color Flex pure must be stirred thoroughly prior to application. Application is carried out evenly and crosswise using a short-pile roller or alternatively by airless spraying. For spray application please ask for our special advice or request the equipment planner “Airless”. Application must not proceed during rain, high humidity, frost or risk of frost. Freshly applied layers must be protected from dew, rain and frost.

Standard systems: MC-Color Flex pure is generally applied in two layers on all fine fillers of the Nafufill range. MC-Color Flex pure may be used in combination with Nafufill DSP, Nafufill KM 103, Nafufill KM 110, Nafufill KM 220, Nafufill KM 110 HS and Zentrifix F 92.

Special system: On all other substrates, especially on Nafufill EF, priming with MC-Color Primer is necessary prior to application. Afterwards MC-Color Flex pure is applied in two layers.

General information: If the curing of the fine mortar can neither be carried out conventionally nor in the system, the use of MC-Color Primer is required prior to the application of the coating.

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 depends on a number of factors, e.g. light, perspective, distance, surrounding and substrate conditions (smooth/rough, absorbent/impervious). The colouring effect is thus often a matter of subjective judgement. We therefore recommend applying a trial area with the chosen system. Adjoining areas should only be coated with material from the same batch.

Depending on the chosen colour, e.g. bright yellow or bright red shades, there might be differences in the opacity and it may therefore be necessary to apply three top coats of MC-Color Flex pure.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	1.42	
Solids content	Vol.-%	51.7	
Application conditions	°C	≥ 8 ≤ 30	Temperatura del aire, soporte y material
	%	< 85	rel. humidity
	K	3	above dew point
Consumption 1)	ml/m ²		colour change recommended
		1)	440
Overworkable after	hours	approx. 1.5	Primer / 1st layer
		approx. 12	1st layer / 2nd layer
Rain resistant after	hours	approx. 12 - 24	depending on temperature
Dry to the touch after	hours	approx. 1.5	
Resistance to diffusion (against water vapour H ₂ O)	m	< 0.5	at 225 µm dry layer thickness
Resistance to diffusion (against carbon dioxide CO ₂)	m	82	at 225 µm dry layer thickness
	m	110	at 300 µm dry layer thickness
Crack-bridging (static)	mm	0.41	a2 at 23°C
		0.48	a2 at -20°C
Crack-bridging class (static)		A2	at 23°C
		A2	at -20°C
Crack-bridging class (dynamic)		B3.1	at -20°C

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

1) The consumption values depend on the impermeability, absorbency and type of substrate. To determine the object-specific consumption quantities, it is advisable to create test areas.

2) When used as a certified OS system in accordance with DIN V 18026, 2 x 280 ml/m² (2 x 400 g/m²) should be used as application quantity.

Form	liquid
Delivery form	15 l buckets and 120 l drums
Calculated yield	15 l (for 2 work steps) approx. 27 - 34 m ² ; 120 l (for 2 work steps) approx. 214 - 272 m ²
Storage	Can be stored in cool and dry conditions for at least 24 months in original unopened packs. Protect from frost.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG AIII/c (40 g/l) < 40 g/l VOC
Packaging disposal	Make sure single-use containers are completely empty.

Note: The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2400020482]