

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 NOTES:

- **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. Then **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 DATA:

Characteristic	Unit	Value	Comments
Density	kg/dm ³	1.42	
Solids content	Vol.-%	51.7	
Application conditions	°C	≥ 8 ≤ 30	air, substrate and material temperatures
	%	< 85	rel. humidity
	K	3	above dew point
Consumption			
1)	ml/m ²	440	colour change recommended
2)			440 in 2 passes of 220 ml each
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)	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.

PRODUCT CHARACTERISTICS:

Form	Liquid
Packaging	15L buckets and 120L drums.
Calculated yield	15L (for 2 work steps) approx. 27 - 34 m ² ; 120L (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 All/j (40 g/l) ≤ 40 g/l VOC.
Packaging disposal	Make sure single-use containers are completely empty.

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **01/2024**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.