

MC-Color T 21

Coloured high-performance coating with integrated 3D technology



PRODUCT PROPERTIES

- Ready-to-use, water-based acrylic dispersion with integrated 3D Technology
- Film-forming, dries glossy
- Open to water vapour diffusion and inhibits carbonation
- Colour-proof, as resistant to UV- and weathering
- Extremely low dirt pick-up
- According to DIN EN ISO 2813 - gloss level 40-60
- Reflectance value, LRV value class 70
- According to DIN EN ISO 13300 wet abrasion resistance class 1
- According to DIN EN ISO 13300 Cleanability characteristic value 0
- Can be applied by roller and airless spraying
- Tested and approved as OS 2 and OS 4 surface protection system
- Temperature, frost and de-icing salt resistant (XF 4)
- Registered with DGNB (Code: Q0GFCH)
- Non-flammable, building material class A2-s1, d0 according to EN 13501-1 (system test with Nafufill KM 103)
- Non-flammable, building material class C-s1, d0 according to EN 13501-1 (system test with Nafufill R3 FM)

AREAS OF APPLICATION

- Surface protection according to ÖBV, ASTRA, ZTV-ING Part 5 Tunnel
- Preventive concrete protection for outdoor surfaces exposed to weathering
- Surface protection for non-accessible and non-driven-on exterior areas
- Suitable for use in spray- and splash zones of de-icing salts
- EN 1504 Part 2 for principles 1, 2 and 8, procedures 1.3, 2.3 and 8.3
- REACH-rated exposure scenarios: Water contact periodic, Inhalation periodic, Processing

APPLICATION ADVICE

Substrate preparation: See leaflet "General processing instructions for surface protection systems".

Application: MC-Color T 21 must be stirred thoroughly before use. If applied by roller, MC-Color T 21 must be applied evenly with short pile rollers in a criss-cross pattern. Alternatively, the product can be applied by airless spraying. For spray application, please request our special advice. Do not apply in rain, high humidity, frost or danger of frost. Freshly applied coats must be protected from dew, rain and frost.

Control systems: MC-Color T 21 is always applied in two layer. MC-Color T 21 can be used in combination with Emcephob WM, Emcephob HC, Nafufill EF and Nafufill R3 FM.

Special systems: On all other substrates or highly absorbent mineral substrates, first prime with MC-Color Primer. Then apply MC-Color T 21 in two layers.

Special instructions: The application quantities depend on the substrate condition, so that there may be an increase or decrease in consumption. Please observe the surface roughness allowances to the technical documents.

The colour effect or the degree of gloss on the object depends on a number of factors, such as the incidence of light, the viewing angle, the distance and the substrate conditions (smooth/rough, absorbent/tight). Thus, the colour effect/gloss level often falls within the realm of subjective assessment. We recommend applying a test surface in the intended system build-up. Coherent surfaces should only be treated with material from one batch. Depending on the selected colour, e.g. signal colours, there may be differences in opacity, so that it may make sense to apply three top coats of MC-Color T 21.

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	1.21	
Application conditions	°C	≥ 8 ≤ 30	air, substrate and material temperatures
	%	< 85	rel. humidity
	K	3	above dew point
Consumption ¹⁾	ml/m ²	300	in 2 passes of 150 ml each
Overworkable after	hour	approx. 1	Primer / 1st layer
	hours	approx. 1	1st layer / 2nd layer
Rain resistant after	hours	2 - 4	depending on temperature
Dry to the touch after	hours	approx. 1	
Resistance to diffusion (against water vapour H ₂ O)	m	1.25	at 150 µm dry layer thickness
Resistance to diffusion (against carbon dioxide CO ₂)	m	141.2	at 150 µm dry layer thickness

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.

Form	liquid
Delivery form	15 l buckets and 120 l drums
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/b (100 g/l) < 100 g/l
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. [2300019133]