

MC-DUR 2496 CTP “Tunnel structures”

**Fast curing, moisture compatible
high-performance coating**

Product Properties

- Two-component, low-solvent, fast-curing reaction resin
- Color-proof, stable against UV and weathering, glossy when dried
- Curing not related to temperature and moisture influence
- Short waiting time between the working steps
- Open to water vapour diffusion and carbonation-retarding
- Resistant to elevated temperatures, frost and de-icing salts
- According to EN ISO 13300 – wet abrasion resistance class 1
- According to EN ISO 13300 – cleanability: parameter 0
- According to EN ISO 2813 – gloss level 40 - 60
- Reflection value, LRV-value class 70
- Low-flammable, building material class C-s1, d0 according to EN 13501-1
- Long application time despite accelerated curing

Areas of Application

- Surface protection in accordance with ÖBV, ASTRA, ZTV-ING part 5 “Tunnel“
- Surface protection for non-accessible and non-driven-on exterior areas
- Surface protection of mineral substrates, particularly for protection of inner tunnel shells
- Suitable for use in spray- and splash zones of de-icing salts
- REACH-assessed exposure scenarios: application, long-term inhalation, periodical water-contact
- Certified in accordance with EN 1504 part 2 for principles 1, 2 and 8, procedure 1.3, 2.2 and 8.2

Application

Substrate preparation

See leaflet “General Application Advice – Surface Protection Systems“. If MC-DUR 2496 CTP is used in combination with fine fillers, the concrete substrate must be prepared in accordance with leaflet “General Application Advice – Fine Fillers“.

Application

MC-DUR 2496 CTP consists of base and hardener component supplied in pre-packed quantities. Prior to application, both components are mixed thoroughly using a slowly rotating mixer. Following mixing, MC-DUR 2496 CTP is repotted into a clean container and stirred again. After mixing is completed MC-DUR 2496 CTP is applied quick and crosswise, evenly and streak-free using a short-pile roller or by airless spraying technique.

Processing must not be carried out in the presence of rain or frost. Moisture in the form of a closed water film on the applied surface must be avoided.

Overcoating times

We recommend to apply MC-DUR 2496 CTP in two layers. If MC-DUR 2496 CTP is applied in combination with fine fillers (e.g. Nafufill R3 FM), MC-DUR 2496 CTP may only be applied after 24 hours at the earliest. If MC-DUR 2496 CTP is applied in combination with MC-DUR 1250 TX or Emcephob HC, we recommend an overcoating time of 12 to 24 hours. Please observe additional surface roughness allowances in the application advice.

Cleaning advice

Use cleaning agent MC-Reinigungsmittel U. Already cured MC-DUR 2496 CTP can only be removed mechanically.



Technical Data for MC-DUR 2496 CTP

Characteristic	Unit	Value*	Comments
Density	kg/dm ³	1.35	at 20 °C and 50 % relative humidity
Viscosity	mPas	approx. 900	at 20 °C and 50 % relative humidity
Mixing ratio	p.b.w.	100 : 55	base : hardener
Application time	minutes	approx. 120	at 20 °C and 50 % relative humidity
Overcoating time	hours	2 - 12	
Rain-proof	minutes	30	
Diffusion resistance against carbon dioxide	sd-class	> 50	at 150 µm dry layer thickness
against water vapour	sd-class	< 4	at 150 µm dry layer thickness
Application conditions	°C	≥ 2 - ≤ 40	air- and substrate temperature
	°C	≥ 15 - ≤ 40	MC-DUR 2496 CTP
Coverage**	g/m ²	130 - 260	= approx. 80 - 160 µm dry layer thickness

Product Characteristics for MC-DUR 2496 CTP

Deliver	10 kg and 30 kg
Standard colours	RAL 9010, 1013 and 1015. Further colours on request.
Storage	Can be stored in original unopened packaging for approx. 12 months . Store dry and cool. Protect from frost!
Disposal	Packs must be emptied completely.
EU-regulation 2004/42 (Decopaint-standard):	RL2004/42/EG All/j (500 g/l) ≤ 500 g/l VOC

* All technical data are lab values and relate to +23 °C and 50% relative humidity

** Coverage rates depend on roughness, absorbency and type of substrate.

To determine the project-specific coverage we recommend applying a trial 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 08/20. 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.