

# MC-DUR 2496 CTP Tunnel

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 ADVICE

**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 VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Mixing ratio	p.b.w.	100 : 55	base component : hardener component
Application conditions	°C	≥ 2 ≤ 40	air and substrate temperatures
		≥ 15 ≤ 40	material temperature
Consumption <sup>1)</sup>	g/m <sup>2</sup>	130 - 260	
Density	kg/dm <sup>3</sup>	1.35	at 20°C and 50% rel. humidity
Viscosity	mPa·s	approx. 900	at 20°C and 50% rel. humidity
Resistance to diffusion (against carbon dioxide CO <sub>2</sub> )	m	> 50	at 150 µm dry layer thickness
Resistance to diffusion (against water vapour)	m	< 4	at 150 µm dry layer thickness
Rain resistant after	minutes	30	
Working time	minutes	120	at 20°C and 50% rel. humidity
Overworkable after	hours	2 - 12	

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

1)

standard colour shades	RAL 9010, 1013 and 1015. Other colours on request.
delivery form	
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs. Protect from frost.
packaging disposal	Make sure single-use containers are completely empty. Ensure compliance with our information leaflet "Return of Emptied Transportation and Sale Packaging". We will be glad to send you this on request.
EU Regulation 2004/42 (Decopaint Directive)	RL2004/42/EG AIII/j (500 g/l) < 500 g/l VOC

**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. [2100004747]