

Emcoril Protect H

Curing compound for evaporation prevention after demoulding/form stripping in general concrete construction



PRODUCT PROPERTIES

- Ready-to-use water-based polymer dispersion
- High level of evaporation protection, strong barrier effect
- Facilitates optimum hydration progress in the concrete layer close to the surface
- Minimises the occurrence of early shrinkage cracks
- Decreases the rate of carbonation
- Overcoatable with standard commercial single-component coatings
- Low emissions acc. to AgBB
- Dries rapidly
- Alkali-resistant
- Solvent-free
- Film-forming
- Does not weather
- Can be applied by spraying, rolling or brushing
- Certified to TL NBM-StB 09, Type BE

AREAS OF APPLICATION

- Curing of freshly demoulded concrete according to German code TL NBM-StB 09, Type BE
- Concrete curing for general concrete constructions, e.g. concrete slabs, walls and columns
- Concrete curing for non-trafficable surfaces without grip requirements
- For immediate application on the freshly demoulded concrete

APPLICATION ADVICE

General: Emcoril Protect H forms a protective film on the surface of the freshly demoulded concrete, extensively inhibiting evaporation of the water during the decisive hardening time. Its strong barrier effect ensures optimum hydration progress in the concrete layer close to the surface. As a result, good strength development is achieved and the occurrence of early shrinkage cracks is minimised.

Surfaces treated with Emcoril Protect H can be coated with one- or two-component polymer dispersion coatings (e. g. MC-Color). Reactive resin systems such as epoxy or polyurethane resins are, however, mostly not suitable for overcoating Emcoril Protect H. Application-specific trials will need to be carried out before such systems can be applied.

Conversely, even common paint systems and plasters can be applied to the treated surface without removing Emcoril Protect H. In the case of plastering, however, a bonding agent based on polymer dispersion, e. g. Murafan 39, must be used in spray shot application.

Application Methods: Emcoril Protect H is immediately applied to the surface of the freshly demoulded concrete. For spray application, MC-Spezialspritze or standard commercial pressure sprayers (including tree sprayers) equipped with flat jet nozzles (e.g. MESTO 1421 flat-jet nozzle 80-01 E) are particularly suitable. For rolling or brushing, use short-pile rollers or short-bristle brushes. To ensure even spray application, the distance between nozzle and concrete surface during spraying should be approx. 0.5 - 1 m.

Further Information: The minimum concrete curing time depends on the exposure class, surface temperature and strength development. The relevant information can be determined from EN 13670/DIN 1045-3. However, Emcoril Protect H does not provide thermal protection (e.g. from cooling, high temperatures or extreme temperature changes).

TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Density	kg/dm ³	approx. 1	
Viscosity	seconds	13	kinematic to DIN 53211
Application conditions	°C	≥ 5 ≤ 30	air, substrate and material temperatures
Consumption	g/m ²	150 - 200	
Drying time	hours	4.5	tack-free
Flash point	°C		
Barrier transmission coefficient		approx. 20	TL NBM-StB 09
pH value		approx. 8.5	

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

self-monitoring	EN ISO 9001
equipment cleaning agent	Clean with water immediately after use
colour shade	milky white
form	liquid
delivery form	30 kg canister(s) 200 kg drum 1,000 kg container
Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs.
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.

Safety instructions

Please note the safety information and advice given on the packaging labels and safety data sheets. GISCODE : NBM10

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. [2100004580]