Emcoril Protect M lite

Basic concrete curing for non-trafficable surfaces in general concrete constructions

BE SURE. BUILD SURE.

PRODUCT PROPERTIES

- Ready-to-use water-based paraffin dispersion
- Good evaporation protection especially for normal environmental conditions
- Good 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
- Dries rapidly
- Solvent-free
- Film-forming
- Apply by spraying

AREAS OF APPLICATION

- Evaporation protection for general concrete construction, e.g. concrete slabs, walls, foundations and columns
- Evaporation protection for indoor and outdoor concrete
- For application on fresh to matt-damp concrete*

APPLICATION ADVICE

General: Emcoril Protect M lite is developed specifically for temperatures up to a maximum of 25 °C and forms a protective film on the concrete surface, extensively inhibiting evaporation of the water during the decisive hardening phase. Its good 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. Any puddles and pools of water must be removed before application.

Application Methods: Emcoril Protect M lite is sprayed onto the mattdamp, fully compacted and rubbed or smoothed concrete surface to produce an even coating. The quantity applied must be as specified. Emcoril Protect M lite can be applied using 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). MC-Pump 1 canister sprayer or with the MC-Pump 2 drum sprayer may also be used for the application work. When using these devices, ensure compliance with the MC-Pump equipment planner.

To ensure even spray application, the distance between nozzle and concrete surface during spraying should be approx. 0.5 - 1 m.

Overcoating / Overworking: Emcoril Protect M lite form a film which remains present and can only be removed, if required, by special measures. If the surface coated with Emcoril Protect M lite is to be subsequently coating with paint, sealants, coatings, etc., the film must be completely removed. Cold high-pressure water cleaning or blasting with solid abrasives is suitable for this purpose.

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 M lite does not provide thermal protection (e.g. from cooling, high temperatures or extreme temperature changes).

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TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Water pollution hazard class		WGK 1	
Density	kg/dm³	approx. 0.99	
Viscosity	seconds	11	kinematic to DIN 53211
Application conditions [1)]	°C	≥ 5 ≤ 25	air, substrate and material temperatures
Consumption	g/m²	150 - 250	
Drying time	hours	approx. 3	tack-free
Barrier transmission coefficient	%	approx. 60	with 150 g/m² per TL NBM-StB 09
		approx. 85	with 250 g/m² per TL NBM-StB 09
PH value		7	
	All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.		

1) In case of surface/air temperatures > 25° C please use Emcoril Protect M or when used Emcoril Protect M lite wet (befogging) the surface additionally with water. In case of strong wind and exposure classes XD, XF, XS use wetting (befogging) already at > +15 °C. Source: Curing and protection of young concrete, Cement pocket book 4/2014

Self-monitoring	EN ISO 9001
Colour	milky white
Form	liquid
Delivery form	30 kg canister(s) 200 kg drum 1,000 kg containers (on request)
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.

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

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