



Emcoril Compact pro

Intermediate concrete curing agent for industrial floor constructions

Product Properties

- Ready-to-use, water-based polymer dispersion
- Temporary lay-time evaporation protection for concrete
- Improves concrete smoothability
- Facilitates optimum hydration progress in the concrete layer close to the surface
- Reduces cracking in exposed surfaces resulting from early age shrinkage acc.to EN 13670 / DIN 1045-3
- Increases surface tensile strength (improved surface quality)
- Increases water retention in the concrete
- Solvent-free
- Apply by spraying

Areas of Application

- Temporary evaporation protection for intermediate curing of industrial flooring concrete during the post-lay waiting period
- Smoothing aid for industrial flooring concrete
- For constructing industrial floors with a hard-grain topping such as MC-Top B
- For application on fresh to matt-damp concrete

Application Instructions

General

In compliance with EN 13670 and DIN 1045-3, the surface of industrial floor concrete must be treated immediately after completion of compaction and smoothing. However, the concrete surface of an industrial floor is usually protected by the bleeding water available, which in the same time evaporates dependent on site conditions. Emcoril Compact pro is to be used only in case that the surface may dry out.*

Emcoril Compact pro reduces evaporation from the surface during the post-lay waiting time while simultaneously improving the smoothness of the concrete. The result is an increase in surface quality and an improvement in the appearance of the concrete.

Application Methods

Emcoril Compact pro is applied to the freshly surface once the concrete has been laid and compacted. The quantity applied must be as specified. Ideally it should be sprayed onto the surface, using MC-Spezialspritze or standard commercial pressure sprayers. Spraying should be performed with a flat jet nozzle (e. g. MESTO 1423, 90-04E). To ensure even application, the distance between nozzle and concrete surface during spraying should be approx. 0.5 - 1 m.

Emcoril Compact pro should only be used to protect against evaporation during the post-lay waiting period till smoothing with a helicopter finishing trowel. As the concrete is walkable and smoothable, Emcoril Compact pro is worked into the surface with the helicopter finishing trowel. After finishing of smoothing works Emcoril Compact top is used as a final curing to further reduce evaporation during the decisive hardening phase. 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.

Further Information

Subject to adherence to the application instructions and the specifications of work process instructions AVH "MC-Estrifan substrate and substrate Preparation" or AVH "MC industrial floors", the surface may be further overworked for impregnation, sealing and coating.

Preliminary trials to check suitability will, however, be required to ensure the suitability of such processes, as they will when considering the use of a hard-grain topping.

Technical Properties of Emcoril Compact pro

Characteristic	Unit	Value*	Comments
Density	g/cm ³	approx. 1.01	
Consumption	g/m ²	150 - 200	
Flash point	°C	-	Not suitable
pH value	-	7	
Application conditions	°C	≥ + 5 - ≤ + 30	Air, substrate and material temperature

Product Features of Emcoril Compact pro

Self-monitoring	EN ISO 9001
Equipment cleaning agent	Water immediately after use
Colour	White
Form	Liquid
Packaging	25 kg canisters 200 kg drums 1,000 kg containers (on request)
Storage	Keep free from frost! Shelf life 12 months if stored dry in original containers
Disposal	In the interest of the environment, please ensure the containers are empty and residue-free prior to appropriate disposal.

* If the concrete exhibits a high water content at the surface (high water concentration at the top and little evaporation), intermediate curing is not recommended. In the case of an accumulation of water (surface bleeding), the upper wet layer remains for longer and harden with a delay. Due to the high water and admixture content, delayed concrete hardening occurs, which leads to a hardening disruption of the upper wet layer and the underlying concrete. A similar situation is known to occur when placing plastic sheeting on the concrete surface.

**All technical values are laboratory results determined at +20 °C and 50 % relative humidity.

Safety Advice

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

GISCODE: NBM 10; water hazard class: 1

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 04/18. 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.