

MonniCure AR

Acrylic Based Concrete Curing Compound

Product Description

MonniCure AR is an acrylic emulsion based concrete curing compound which is used to prevent the rapid evaporation of water from fresh concrete surfaces. The resultant film retains sufficient moisture in the concrete to ensure uniform hydration, high surface strength, dust free, and higher resistance to abrasion and protection from drying shrinkage.

Uses

MonniCure S is used as an effective and economical curing agent compared to the traditional Hessian, water and polyethylene curing system. Suitable for all types of concrete surfaces and for concrete large areas such as:

- ▶ Car park, decks and ramps, Ports
- ▶ Warehouses and unloading base
- ▶ Highways and airport runways
- ▶ Concrete tanks and reservoirs
- ▶ Floor Slabs

Advantages

- ▶ High curing efficiency. Improves uniform hydration
- ▶ Creates a dust free, hard wearing surface
- ▶ Eliminates the need for water curing
- ▶ UV, chemical and abrasion resistant
- ▶ Improves the durability of concrete surface
- ▶ Water based. Eco-friendly
- ▶ Cost effective
- ▶ Ready to use
- ▶ Versatile white-pigmented for simple, visual application
- ▶ White-pigmented version increases solar reflectivity

Usage Instructions

Pre-application

MonniCure AR should be stirred before application. Product is ready for use directly from the drum and should not be diluted with water.

Surface should be free of water. In case of horizontal surfaces, the product should be applied as soon as the bleed water has evaporated from the surface. With formed concrete, MonniCure AR should be applied immediately upon removal of the formwork.

Application

MonniCure AR should be applied uniformly by sprayer, brush, roller or spray to the surface of fresh concrete at a rate of 6-8m²/liter. In certain cases, especially during high temperature or windy seasons, rate of application might be increased.

Application should be back and forth to ensure complete coverage. The coating cures to form a clear film which provides a moisture barrier to enable effective curing.

Do not spray water or any other material after applying MonniCure AR. Allow the surface to cure without any disturbance until a seamless strong film is formed. No compaction or vibrating acts are allowed close to the cured area as this will break the freshly sprayed film.

Application on damp surface preferable as dry concrete surface may absorb MonniCure AR emulsion, which may cause difficulty to remove the dry film at a later stage.

MonniCure AR should be applied to newly hardened concrete immediately after demolding. It should never be applied on concrete which has started to dry out, otherwise the hydration mechanism will be seriously impaired.

Overcoating and Removal

MonniCure AR must be removed from concrete surface before the application of subsequent coating work commences, to promote a proper bond between the concrete and the applied coating.

Although the membrane will be slowly removed by normal trafficking & UV exposure, this is likely to be inconsistent. To ensure complete removal, use high pressure steam, water blasting or light sand blasting.

Cleaning

Equipment and tools used should be cleaned promptly with water.

Technical Data

Category	Typical Values
Appearance	White emulsion (clear film upon drying)
Density	1.02 Kg/L @ 25°C
VOC	0.9 g/L
Drying Time	30-40 minutes @ 25°C
pH	8.0-9.0 @ 25°C
Efficiency – White Pigmented (BS 7542-1992)	90%

All values are subject to 5-10% tolerance

Standards Compliance

- ▶ ASTM – C 309. Type 1 & 2
- ▶ BS7542

Consumption

6-8 m²/L, depending on concrete surface condition.

Packaging

MonniCure AR is packed in plastic containers of 20 liters and 210 liters.

Recommendations

- ▶ Should not be applied onto dry surfaces which may lead to absorption and will be difficult to remove.
- ▶ MonniCure AR is not an aesthetic coating. It should be therefore removed from the concrete after 28 days.

Health and Safety

MonniCure AR does not fall into hazardous classification of current regulation. However, it should not be swallowed or allowed to come into contact with skin or eyes in either spray or bulk form.

Legal disclaimer

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