

MONNELI BETOCURE AR

Acrylic Based Concrete Curing Compound

Product Description

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

BETOCURE AR is used as an effective and economical curing agent compared to the traditional Hessian, water and polyethylene curing system. It is 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
- Reduces surface cracking and shrinkage
- Water based. Eco-friendly
- Cost effective
- Ready to use
- Versatile white-pigmented for simple, visual application
- White-pigmented version increases solar reflectivity

Instructions for Use

Pre-Application

BETOCURE 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, BETOCURE AR should be applied immediately upon removal of the formwork.

Application

BETOCURE AR should be applied uniformly by 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 BETOCURE 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 is preferable as dry concrete surface may absorb BETOCURE AR emulsion, which may cause difficulty to remove the dry film at a later stage.

BETOCURE 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.

Over-Coating and Removal

BETOCURE 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.

Recommendations

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

Technical Data

Properties	Results
Appearance	White emulsion (clear film upon drying)
Density at 25°C	1.02 kg/L
VOC	0.9 g/L
Drying Time at 25°C	30-40 minutes
pH at 25°C	8.0 to 9.0
Efficiency – White Pigmented (BS7542-1992)	90%

All values are subject to 5-10 % tolerance

Applicable Standards

- ASTM - C 309, Type 1 & 2
- BS7542, BS8110
- BS 6920

Consumption

6-8 m²/liter, depending on concrete surface condition

Packaging

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

Storage

BETOCURE AR has a minimum shelf life of 12 months, provided the temperature is kept within the range of 5°C to 35°C. Prolonged exposure to direct sunlight should be avoided.

Containers should be kept sealed and airtight to prevent of moisture by evaporation.

Health & Safety

BETOCURE 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.

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