

MasterKure 207WB

Non-solvent curing compound based on aqueous wax emulsion

Material Description

MasterKure 207WB is a non-solvent sprayable curing compound based on an aqueous wax emulsion. MasterKure 207WB is characterized by a high water retention efficiency, and complies with the requirements of the Austrian RVS 11064 part 2 (curing compounds for concrete).

After spraying, MasterKure 207WB forms a dense, water-insoluble membrane which protects the concrete or mortar surfaces from premature drying out by evaporation of the mixing water. MasterKure 207WB does not contain substances that could retard the surface of concrete to which it is applied.

Fields of Application

Curing of fresh concrete and other cementitious surfaces.

Characteristics and Benefits

MasterKure 207WB offers the following benefits:

- Free of organic solvent.
- Sprayable with commonly available equipment.
- Excellent water retention.
- High initial water retention >85%.
- High water retention after 2 hours >95%.
- Reduced labour costs and economic in use.

Application Procedure

Unprotected concrete surfaces under unfavourable conditions such as low humidity, solar radiation, high temperatures or strong air movement, can lose up to 4 kg of water per square meter per hour through evaporation.

This could lead to plastic shrinkage cracking of the concrete and affect the overall integrity of the concrete to a depth of approximately 20 mm.

The quality of the surface layers (of cement-based systems) in terms of tensile strength and density will be positively influenced by the application of an effective curing treatment. It

is usually more economical to apply an effective curing membrane rather than keeping the concrete surface moist for days. Since the curing membrane is not a polished hard wax layer it tends to bind dust and dirt from the environment. Any subsequent polishing process on a surface treated with MasterKure 207WB significantly increases the risk of slipping.

Even a careful application may result in variations in colour of the dry concrete surface. The main reasons for this are different application quantities and a different time of application (concrete age and hydration).

The application is ideally done with a suitable spraying device (e.g. a so-called mould oil sprayer with flat-spray nozzle of 110°) after the initial water film on the concrete surface has disappeared.

During handling of the containers, and filling of the spraying device, excessive agitation should be avoided as this can create foaming of the product. Build-up of material can occur during use and as such the sprayer and nozzles should be thoroughly cleaned regularly.

Clean all spray equipment, particularly nozzles using warm water. It is advisable, when a spray nozzle is not in use, to leave it immersed in water.

Subsequent Surface Finish

Since wax is a highly effective release agent MasterKure 207WB must be removed thoroughly (e.g. with hot high pressure water jet with wax dissolving cleaning additive), this is particularly required prior to the application of subsequent coatings and finishes (paints, coatings, fillings, etc.).

Coverage

When applied to fresh concrete the recommended rate of application is 200 g/m², this equates to 4.5 to 5.5 square metres per litre. This corresponds to that at which MasterKure 207WB has been tested, and at which it attains the claimed degree of curing efficiency. In favourable conditions such as shaded interior surfaces, adequate curing can be achieved with extended coverage rates.

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Cleaning

Non-dried material can be washed off with water. Tools and devices can be cleaned with warm water.

Packaging

MasterKure 207WB is supplied in 1000 kg IBC's and 25 kg containers.

Contact Details

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Product Data	
Appearance:	Milky white liquid
Specific gravity @ 20°C:	0.98 g/cm ³
Basis:	Aqueous emulsion
Solids content (%)	30 ± 3
Water retention factor*	86% - immediately, 99% - after 2 hours
*RVS 11.064 Part 2 Pkt.2.4.2 and 2.5 at 200 g/m ²	
Logistics	
Shelf life:	6 months if stored according to manufacturer's instructions in unopened container.
Storage conditions:	Store in original sealed containers and at temperatures between 5°C and 30°C. Store under cover, out of direct sunlight and protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
Handling and transportation:	Refer to MasterKure 207WB Safety Data Sheet
Disposal:	Refer to MasterKure 207WB Safety Data Sheet

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Disclaimer

MasterKure 207WB, Master Builders Solutions UK Ltd, Version 4

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Spillage

Chemical products can cause damage; clean spillage immediately.

DISCLAIMER

"Master Builders Solutions UK Ltd" (the Company) endeavours to ensure that advice and information given in Product Data Sheets, Method Statements and Material Safety Data Sheets (all known as Product Literature) is accurate and correct. However, the Company has no control over the selection of its products for particular applications. It is important that any prospective customer, user or specifier, satisfies him/her-self that the product is suitable for the specific application. In this process, due regard should be taken of the nature and composition of the background/base and the ambient conditions both at the time of laying/applying/installing the material and when the completed work is to be brought into use.

Accordingly, no liability will be accepted by the Company for the selection, by others, of a product, which is inappropriate to a particular application.

Products are sold subject to the Company's standard conditions of sale and all customers, users and specifiers, should ensure that they examine the Company's latest Product Literature.