

PRODUCT DATA SHEET

Sika® Antisol®-107 WB

(formerly MKure 107 WB)

White pigmented, wax based, membrane forming concrete curing compound

DESCRIPTION

Sika® Antisol®-107 WB is a solvent free water based; membrane forming wax emulsion, suitable for curing newly placed or freshly de-shuttered concrete, assists in the retention of water during hydration.

Sika® Antisol®-107 WB incorporates a white pigment which at recommended coverage rates gives a day-light reflectance value of 60-80%. This permits a high curing efficiency to be maintained even in conditions of intense ambient light.

The resultant film retains sufficient moisture in the concrete to ensure full hydration of the cement; essential for optimum strength development. Membrane cured concrete is typically harder and exhibits a dust free surface with a reduced incidence of drying shrinkage cracks.

USES

As a more effective and economical alternative to hessian and water and polythene curing regimes. Suitable for use on all concrete surfaces.

Sika® Antisol®-107 WB is not recommended for applications where subsequent renders, toppings or coatings are to be applied or on coloured concrete surfaces.

PRODUCT INFORMATION

Packaging	Sika® Antisol®-107 WB is available in 20 & 210 litre drums.
Shelf life	Shelf life is 12 months, in an opened, original sealed packaging. Protect from direct sunlight.
Storage conditions	Sika® Antisol®-107 WB must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.

CHARACTERISTICS / ADVANTAGES

- Improves moisture retention in concrete
- Prevents rapid water evaporation
- Single application
- Promotes a harder dust free surface
- Reduces drying shrinkage
- Reduces the incidence of hairline cracks
- High curing efficiency
- Reduced labour costs
- Solar reflective
- Water based - user friendly
- Cured film is white and water repellent

APPROVALS / STANDARDS

ASTM C309 Type II Class A, BS 7542: 1992

Appearance / Colour

White liquid

Density

~1 kg/l at 25°C

APPLICATION INFORMATION

Consumption

The recommended rate of application is 5-6 square metres per litre. This corresponds to that at which Sika® Antisol®-107 WB 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.

In place of the above recommendations, the rates of cover stipulated in a specification should at all times be observed.

Application

Use Sika® Antisol®-107 WB as supplied without dilution. Stir well before use (rolling drums containing the product is an effective method).

The compound should be spray applied as evenly as possible to the freshly placed concrete.

On horizontal surfaces the curing efficiency of Sika® Antisol®-107 WB will be adversely affected if applied on standing bleed water as the required film will not be able to be formed. Timing of application is important so that the curing membrane is applied as soon as the surface sheen disappears but should not be delayed thereafter.

On vertical surfaces the Sika® Antisol®-107 WB should be applied immediately on removal of the formwork, i.e. at such time as the concrete is as green as possible. To assist breakdown of the Sika® Antisol®-107 WB film on vertical and formed surfaces, it is essential to dampen down the concrete with clean water prior to application.

In case if spray application is not possible, ensure to apply using short-nap roller. If bubbles appear on the surface, slow down the speed of rolling. Do not overlap. Take adequate care to prevent marring of the concrete surface.

Drying time is approximately 2 hours at 21°C with the relative humidity at 50%. Higher humidity or a lower temperature will increase the drying time. Note that the 2 hours time is for drying only; the full strength of the curing membrane will not develop for 2 – 4 days. Protect the applied surface from rain until the film has totally dried.

Subsequent surface finishes

It is important that the complete removal of the Sika® Antisol®-107 WB should be ensured prior to the application of any surface finish or additional treatment. It is recommended that where the concrete is to receive a coating or the application of tiles, the use of MasterKure 181 is considered. (see separate datasheet)

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Use as de-bonding agent

Sika® Antisol®-107 WB when correctly applied, can be used as a bond breaker/ de-bonding agent. It should be spray/brush applied to form an even film covering the entire surface against which the subsequent concrete will be cast. If necessary, more than one coat should be applied. The actual coverage and number of coats shall be dependent on texture and porosity of the surface. The recommended application rate when

used as a bond breaker is 4 square metres per litre

Curing/ After Treatment

Breakdown of the Sika® Antisol®-107 WB film usually commences after 30 days and takes up to 6 months for total disintegration to occur. The time for disintegration in all cases is dependent on a number of variables, such as thickness of film applied; the degree and severity of exposure to weather and traffic, and porosity of the concrete. Sika offers no guarantees that breakdown will ever be wholly complete.

Removal

Ease of curing compound removal is directly related to the length of time the compound is left on a surface. If Sika® Antisol®-107 WB will be removed at some point, remove it as soon as curing period is complete (no longer than 28 days) for best results.

Do not use acid to remove Sika® Antisol®-107 WB.

Acids will not dissolve the wax coating but will dissolve

the surface of the concrete.

Cleaning

Use hot water and detergent to clean rollers and spray equipment before Sika® Antisol®-107 WB dries.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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