

Corrocure AR

Acrylic based curing compound

Reference No.	TDS / ST / CCUAR
Issue Date:	December 2015
Revision No.	6

Product Features

Corrocure AR is a white liquid curing compound based on an acrylic resin emulsion that dries to form a clear, non-penetrating, continuous membrane over new concrete, preventing rapid water loss during the critical early hardening stage, thus improving the efficiency of cement hydration, increasing durability and reducing the chance of plastic shrinkage cracks.

Corrocure AR has environmental benefits, as no additional water is required to cure the concrete after application, therefore reducing subsequent labour and energy demand compared to continuously curing with water. It is also compatible with water based emulsion paints, cement renders & gypsum plasters as finishes.

Complies to ASTM C 309 Type 1 Class A / Type 2 class A .

Typical Uses

Corrocure AR is typically used to cure fresh concrete, particularly where using traditional methods of hessian and water or polythene sheet are difficult such as high rise buildings, large surface areas or remote site locations.

Corrocure AR is beneficial in hot countries where strong sunlight and winds can dramatically increase the risk of drying shrinkage on all areas of fresh concrete.

Technical Data		
Properties	Test Standards	Typical Values
Colour		: clear / white
Specific Gravity	ASTM D 1475	: 1.00 ± 0.02
Water retention	ASTM C 156:03	: < 0.55 kg/m ²

Note: All values given are subject to 5 - 10% tolerance.

Directions for Use

Preparation

No special preparation is required before the application of **Corrocure AR**.

Ensure concrete surfaces are clean and free from contamination such as dust, oil, grease, organic growth & release agents.

Priming

Priming is not normally required however please ensure the substrate is clean, sound and free from contamination.

Mixing

Stir **Corrocure AR** thoroughly to mix any solid materials that may have settled at the bottom of the packaging, until a homogenous consistency is achieved.

Application

Apply **Corrocure AR** using low pressure spray equipment to give a fine even coating to the fresh concrete at a theoretical coverage rate of 4 - 5 m² per litre per coat. A minimum of 2 coats of **Corrocure AR** are recommended.

Do not apply if surface bleed water from the fresh concrete is present or forming.

Corrocure AR can also be applied to newly hardened concrete after the formwork has been removed, however we recommend dampening the surface with clean water prior to application.

It is recommended to do on site trials to assess the suitability of the spray equipment and the actual coverage rates that can be achieved, prior to commencement of the works.

Curing

Corrocure AR acts as a curing membrane therefore after application, no further curing using water and hessian or polythene is required.

After the concrete has cured sufficiently, the **Corrocure AR** should be removed using high pressure steam, water jetting or light sand blasting, prior to the application of subsequent finishes, however please consult with Corrotech regarding the compatibility of **Corrocure AR** with the finishes to be used, as this may help reduce preparation.

Corrocure AR is compatible with **Corrobond PVA**, **Corrobond SBR** and other acrylic based bonding agents or paints, therefore no removal is required if the **Corrocure AR** is well bonded to the substrate.

Hot Weather Conditions

For application above 40°C we recommend adopting the following guidelines:

Store unmixed materials in a cool preferably air conditioned environment.

Avoid exposure of mixed & unmixed materials to direct sunlight.

Keep equipment that will be in contact with the product cool and away from direct sunlight.

Avoid application during the hottest time of day.

Cleaning

Clean tools & equipment immediately after use with detergent and water.

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Limitations

Substrate temperatures should be above 5°C and rising.

For application in temperatures above 40°C please refer to hot weather condition recommendation.

Avoid application if the work area may be subject to the onset of rain or moving water.

All products should be used within the pot life. Materials not used within the specified time should be discarded.

The product should not be thinned with any type of solvent under any circumstances.

If the above general application details do not meet with your requirements, please contact Corrotech for a project specific method statement.

Estimating

Corrocure AR pack size: 200 litre drums. Coverage rate approximately 4 - 5 m² per litre per coat

All coverage rates given are theoretical and subject to actual site conditions. We recommend trial areas are done to establish practical consumption particularly for primers.

Health & safety

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes.

Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.

If swallowed, seek medical attention immediately. Do not induce vomiting.

Avoid inhalation and ensure adequate ventilation or suitable respiratory equipment if working in confined spaces.

Do not expose products to fire or naked flames under any circumstances.

Always refer to the product Material Safety Data Sheet (MSDS) for full health & safety and handling recommendations.

Storage

Corrocure AR has a maximum shelf life of 12 months from the date of manufacture.

To maximize shelf life always store products in their original, unopened packaging in a dry environment, away from direct sunlight with a minimum temperature of 10°C but not exceeding 35°C.

Damaged packaging, high humidity or extreme temperatures may reduce the shelf life.