

# Polycure AC

## Acrylic based concrete curing compound

Used to prevent rapid evaporation of water from fresh concrete ensuring uniform hydration, adequate strength development



### CHARACTERISTICS

- Dual protection as curing and sealing compound
- Protects concrete from water borne chlorides, sulphates and atmospheric carbon dioxide
- Economical, Labour saving, Easy to apply



### DESCRIPTION

Polycure AC is a non-degradable liquid type of curing and sealing compound based on acrylic and proper wetting agents. Polycure AC is used to prevent rapid evaporation of water from fresh concrete ensuring uniform hydration, adequate strength development and minimizes plastic and drying shrinkage cracks. This will also act as sealing coat for protecting concrete from the attack of water borne salts and ingress of carbon dioxide from the atmosphere. The cured film further acts as a primer system for subsequent surface finishes. It also provides a dust free surface to the concrete with a reduced incidence of drying shrinkage cracks.

### FIELDS OF APPLICATION

A cost effective curing compound as well as surface sealer for fresh concrete. An effective alternative to hessian, water or polyethylene curing aids.

Polycure AC is suitable for use on all concrete surfaces and acts as a more effective and economical alternative to separate curing, priming systems.

- in high rise construction where continuous wet curing is not possible.
- in areas subjected to high drying winds which require continuous curing.
- surfaces, which requires subsequent finishes.

### ENVIRONMENTAL INFORMATION

Contributes toward satisfying LEED® v4 requirements of the EQ Credit- Low-emitting Materials (for the VOC content)

### APPLICATION INSTRUCTIONS

Mix the contents of the drum thoroughly prior to the application in order to remove the sediments. It is



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recommended that the curing compound is applied immediately after the initial bleed water evaporates and the concrete has achieved its initial set. In case of de-shuttering, the concrete surface is wetted with water but not with free standing water, before the curing compound is applied. The application can be done by a brush, roller or an airless spray at a coverage rate of 5m<sup>2</sup>/L. For highly porous surfaces, a second coat has to be applied at the same coverage rate.

### PRIMER FOR SUBSEQUENT FINISHES

Polycure AC acts as a primer and bonding agents for the following systems:

- water based emulsion paint systems containing PVA, PVC, and acrylic co-polymers
- tile adhesives based on the above polymers
- bitumen based emulsions or solutions
- cementitious systems

### Note:

- concrete curing compound will effectively prevent evaporation of water from concrete, provided it is not punctured or damaged, but will not allow the ingress of water to replenish that is lost by self desiccation.
- where water curing is inconvenient or potable water for curing is not available, sealing fresh concrete surface with curing compound is the best alternate curing method.

## STORAGE & SHELF LIFE

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is up to 12 months in un-opened conditions and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

## HEALTH & SAFETY

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

## SUPPLY

Polycure AC	20L & 200L drum
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## TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Appearance	White liquid	-
Specific gravity, [g/cc]	1.0±0.05	ASTM D 1475
Toxicity	Non toxic	-
Applicable standard	ASTM C 309 Type 1&2, class A&B ASTM C 156	-
Application temperature, [°C]	5 to 55	-

*All values given are subject to 5-10% tolerance*

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

