

DESCRIPTION

Highcure As_® is an Acrylic Copolymer based curing membrane that form a transparent or Pigmented film, used to protect fresh concrete or plaster surfaces from the undesirable effects associated with too rapid evaporation of surface moisture as well as protective coating and dustproof to concrete surfaces.

USES

Highcure As_® is suitable for Spraying over:

- Fresh Concrete Surfaces
- Plaster Surfaces

ADVANTAGES

- No Ponding Techniques
- Single Application
- Impair the properties
- Provide Higher Compressive Strength
- No Solvent Vapor or noxious fume
- Contains no flammable solvents
- VOC: <50.0g/l

COMPLIANCE

DOT specification for roads and bridge works 1976, clause 2603/2709
DOE specification for aircrafts pavements 1972, clause 810
ASTM C 309 class B, ASTM C 309 class A (pigmented), ASTM C 1315 Type A, ASTM E 1347 (Reflectance Index), &ASTM C 156 (Water Retention in concrete)

MATERIAL DATA

Type	HIGHCURE As (Clear)	HIGHCURE As (Pigmented)
Liquid Form	Whitish	Whitish
Drying Form	Transparent	White
Color	Highcure As (Pigmented can be supplied in various colors (Light Grey, Dark Grey)	
Packing	200, 20, 5 & 1 ltr packing	
Storage Condition	8 month in unopened packaging, between 5°C and 35°C	

TECHNICAL DATA

Property	Value	Test Method
Specific Gravity	1.0 @ 20°C	
PH Value	7.6 ± 1	
Freezing Point	0.0°C	
Chloride	0.0%	
Moisture loss @72hrs	0.55Kg per m ²	ASTM C 156
Curing Efficiency	92%	ASTM C 1315
VOC	< 1g/l	ASTM C 309-03
Reflectance Test	>65.00%	ASTM E 1347
Degree of Setting	No setting @14 days	ASTM D869
Drying Time	~3hours	ASTM C 309-03

TRANSPORTATION

Non-Hazardous Material

Important Notice:

The above data is based on our experience and extensive laboratory tests. It may be considered to be a general advice only and cannot be granted to meet the requirements for all the intended uses. It is the responsibility of the end user to ensure that the product is suitable for the purpose for which he wishes to use it. In view of many varying factors that are encountered during the application of the product it does not exclude the end users from not conducting their own test before actually using the product. We are thus only responsible for the quality of the product itself and not responsible for its performance, nor would we accept any liability whatsoever or howsoever arising from the use of this product. Any such matters should be specifically agreed to in writing by us. Bayshield reserves the right to modify the contents of the data sheet from time to time without notice as a system requirement in updating our products from time to time.

SURFACE PREPERATION

Highcure As_® is supplied ready to use and should not be diluted with water or solvent. Ideally it should be sprayed onto the concrete or plaster surfaces as soon as the formwork is removed or alternatively as soon as the free surface water has disappeared from the horizontal surfaces.

Highcure As_® should not be sprayed onto surface dry concrete or plaster. Where the concrete or plaster has lost some of its 'greenness' it is essential to dampen the surface with water. However, **Highcure As_®** should not be sprayed onto concrete which has obvious free standing water on it.

Highcure As_® (Clear) deposits a polymer based film onto the concrete. This film will degrade mechanically by abrasion from foot and road traffic, and via weathering on vertical surfaces. **Highcure As_® (pigmented)** will provide a Pigmented satin finish film over the surface that will be touch dry within 10 min and stable within 45-60 min. The Exposed film will start to disintegrate mechanically after 3-4 weeks and will remain intact if no abrasion exist. For better hiding capability, **Highcure As_®** should be applied in 2 coats minimum at a ratio of 1ltr/2-3M²

Remarks: It is recommended that equipment is cleaned immediately with water following any period of spraying. Any delay in cleaning will necessitate the use of solvent to clean equipment. Particular attention should be paid to the thorough cleaning of the spray jets and moving parts of the equipment.

THEORETICAL SPREADING RATE

4-5 m²/ltr @50- 60 microns DFT

SAFETY

Highcure As_® is a water based emulsion of nonhazardous polymer. It is nonflammable and essentially nontoxic. Normal industrial hygiene procedures should be adhered to particularly when spraying and it is recommended that gloves and eye protection be worn. In case of skin or eye contact, thoroughly irrigate with water and seek medical advice if any irritation develops or persists. In the case of accidental ingestion, wash mouth out with water and seek medical attention. Spillages should be cleaned up immediately with water as they will leave a film on evaporation.

PROTECTION MEASURES

Highcure As_® is water base acrylic copolymer and there is risk of cauterization in the event of contact with the eyes; will lead to dehydration and thereof irritation in case of contact with skin. So while mixing and applying the product, protect with safety goggles and protective gloves

- Splashes to skin must be washed off with water and Soap
- Splashes to the eyes must be rinsed with clean warm water. Seeking medical attention is highly recommended and mandatory

