

MIXCURE R90

Resin based concrete curing agent

Mixcure R90 is a liquid type non-degrading curing and sealing membrane forming compound based on specially formulated low viscosity resin and wetting agents. Mixcure R90 is used to prevent rapid evaporation of water from fresh concrete ensuring uniform hydration, adequate strength developments and also reduce the plastic shrinkage cracks on concrete surfaces.

Mixcure R90 will act as a sealing coat in order to protect concrete surfaces from the attack of water borne salts and atmospheric carbon dioxide gas

Appropriation

- Dust proofing and floor hardening in almost all concrete surfaces
- Airport runways
- Concrete tanks and reservoirs
- Ware houses and unloading bays
- Floor slabs and columns
- Car park decks and ramps

Characteristics

Avoid ponding and wet Hessian

Eliminate the need of water curing, ideal for high rise construction

Single component, permanent, penetrating treatment. Hardening action improves abrasion Resistance and chemical resistance to mild acids and Alkalis

Method of application: Mixcure R90 can be applied by spray, brush or roller

The product can be applied when initial bleed water disappears

Resist the growth of bacteria growth

Improves concrete durability and reduce shrinkage

Reduce chloride penetration

Technical Data & Properties

Standard conforms: ASTM C-309 type 1 and 2 classes A and B

Appearance: Clear liquid and white solar reflective version

Specific Gravity: clear: 0.82@25°C

White: 0.89@25°C

Flash point: 35°C

Toxicity: Non Toxic

Water retention: Pass (ASTM309)

Curing efficiency: 90% minimum (BS 7542)

Drying time: 1hour and 45minutes at 23°C

Product Management

Application procedure: Mixcure R90 should be spray applied as evenly as possible to the freshly placed concrete. Hold the nozzle of the spray approx. 450mm from the concrete surface and pass back and forth ensuring complete coverage. Maintain the pump pressure at a sufficient level to produce a fine spray.

On horizontal surfaces, apply Mixcure R90 as soon as the initial surface sheen has disappeared from the concrete face.

For formed concrete, apply Mixcure R90 as soon as formwork is struck. Rate of coverage will depend on particular circumstances but will generally be 5 m² to 6 m² /litre for both Mixcure R90 clear and white.

Application should not begin until the concrete is free from surface water, and should not commence at all if bleed water is apparent on the concrete surface.

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The applied area should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken.

After the application, Mixcure R90 forms a non-penetrating white coating across the concrete surface. The coating cures to form a white or clear film – depends on the version used ie, white or clear – which act as a moisture barrier to enable curing for the concrete surface.

Coverage: 4 to 5m² / litre depending on the surface condition and based on the application to fresh concrete in appropriate time.

Packing & Storage

Mixcure R90 is available in 20 litres and 200 litres drums. For site installations or mass consumptions, deliveries shall be made in bulk custom-designed containers/ storage tanks. Mixcure R90 should be stored in cool, dry and shaded warehouses.

Shelf life is 12 months when stored under cover, out of direct sunlight, protected from extreme temperatures and as per recommendations. In extreme tropical climate, the product must be stored in cooled ambience. Excessive humidity and over exposure to UV will result in the reduction of shelf life.

Health & Safety

Mixcure R90 contains no hazardous substances. As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles shall be worn whilst handling. Wearing long sleeve overall, safety shoes and face mask is recommended for maximum safety. Reseal all containers after use and ensure product is stored as instructed on the safety section of the labeling. Treat any contact 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. For more details, please refer to the MSDS released on each Fab product

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THE CONSTRUCTION CHEMIST

Technical information given in this datasheet is true and exact to the best of our knowledge, laboratory upshot and hands-on application. The datasheets of all products are revised/updated regularly and hence ensure that the latest release is used for reference and recommendation. The date of the publishing is as in this sheet. All data are mean of numerous tests, assessment and analysis conducted under laboratory ambience. Climatic disparity in temperature, humidity, etc. and porosity of substrate may impinge on the values.

Group Head office:

PYCHEM Co. L L C
Post Box 23940, Sharjah.
Te: +971 6 5420414 / 5431636
Fax: +971 6 5421446
Mail: mail@fab-cc.com
fabchem@gmail.com

Under Technical Collaboration with
MIX UK Limited
Cherry Tree House, Cherry Tree Lane
Rostheme, Cheshire, WA143RZ
Web: www.mixuk.com

Head office:

T33A/1, Thyryambhava Houses
Kalapetty road, Coimbatore – 14
Tel: 0422 3222245
Fax: 0422 2625207
Mail: mail@fab-cc.com
fabchem@gmail.com



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