

AQUASHEILD

ELASTOMERIC ANTI-CARBONATION PROTECTIVE COATING

DESCRIPTIONAQUASHIELD

system consists of a silane- siloxane primer AQUASHIELD Primer, which penetrates deep into concrete and provides excellent water repellency and a top coat of single component acrylic polymer based high performance elastomeric coating AQUASHIELD. The system cures to form a weatherproof coating with high diffusion resistance to carbon dioxide making it ideal for protecting RCC structure. It provides protection against aggressive atmospheric pollution and chloride ions, and is breathable allowing moisture vapour to pass through.

RECOMMENDED USE

AQUASHIELD system is recommended as an anti-carbonation, weather and water resistance coating for bridges, walls, marine structure, etc. It is suitable for protecting wide range of construction substrate both in new and existing structure.

PRIMARY APPLICATIONS

- Parking structures
- Bridges
 - Marine Platforms
- Auto/Truck repair bay
- Ramps
- Exterior concrete surfaces

ADVANTAGES

- Cures to form a elastomeric membrane capable of facilitating movement in the substrate.
- Accommodates live crack movement up to 2mm.
- Suitable for wide range of construction substrates.

Breathable coating.

Fast and easy application.

High elongation and recovery rate.

Resistances to sulphate attack.

Excellent carbon dioxide diffusion resistance.

High diffusion resistance to chloride ions.

Long term UV protection.

Non hazardous - Water based acrylic formulation.

TECHNICAL PROPERTIES

Solid content by volume

C02 diffusion resistance (Taywood Method)

Chloride ion Diffusion coefficient (60 days)
(Taywood method)

Reduction in water absorption (ASTM C642)

Reduction in chloride ion penetration

Elongation (ASTM D412)

Adhesion (ASTM D4541)

Tensile Strength (ASTM D412)

Overcoating Time Full Drying Time

PACKING

AQUASHIELD Primer and AQUASHIELD are packed in 20 Ltr. pails.

COLOUR

AQUASHIELD topcoat is available in White, Grey and Beige colours.

COVERAGE

Coverage rates will depend on the surface profile. The recommended minimum coverage rates are:

Aquashield Primer Aquashield topcoat

DIRECTION OF USE Surface Preparation: All surfaces to be treated should be clean and free from all contamination detrimental for bonding. Surface cracks and any unsound concrete should be removed and reinstated to a sound surface suitable for treatment. Curing compound and previously coated materials should be removed with proper tools and equipments.

Primer Application : AQUASHIELD

Primer should be applied on the prepared surface by flood coats, preferably by spray equipment, but also can be applied by roller or brush.

STORAGE

AQUASHIELD Primer and AQUASHIELD have a shelf life of 12 months, if kept in a dry, store in the original unopened packs.

Store in a cool, dry conditions, away from sources of heat and naked flames, in the original unopened pails.

PRECAUTIONS & LIMITATIONS

New concrete / masonry surfaces should be minimum 28 days old.

Do not apply primer over membrane forming sealers.

Ensure the temperature should be 3°C above dew point while application.

Protect adjacent areas from overspray.

Opened containers should be covered always when not in use.

In high temperature, the containers should be kept closed to prevent skinning of top layer.

Under no circumstances the primer should be over-coated until the surface is completely dry. Grass, Joint sealants, asphalt and bitumen-painted areas should be protected during application.

Top Coat Applications: AQUASHIELD

topcoat should be applied by roller or airless spray to the primed substrate to achieve a uniform unbroken coating. Two or more coats are recommended to achieve the required thickness and the coating should be applied perpendicular to each other. The time interval between the coats depends on the temperature and RH, however a minimum of 4 hrs., should be allowed @ 25 deg. C.

CLEAN-UP

Clean tools and equipment with clean water before AQUASHIELD dries.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.