

Deltaseal 100

Hydrophobic & Hygroscopic Moisture Vapor blocker

Description

DELTA SEAL 100 is a biochemically modified chemical solution that gives permanent treatment and ultimate protection of large scale concrete surfaces against moisture associated problems. It is a crystallized pore lining hydrophobic impregnation material. It operates by a hydrophilic action in which it seeks moisture and hygroscopically combines with it to form strong, permanent, tightly bonded, insoluble crystals with the pores and capillaries of concrete surfaces. DELTA SEAL 100 will seal existing cracks upto 1.5 mm. in width. The product remain dormant in the concrete matrix until in contact with water to provide autogenous properties to future hairline cracks which increase in size, hairline after hairline to become quite large cracks.

DELTA SEAL 100 is the only product currently available that delivers combined moisture blocking and repelling mechanism.

Recommended For

- Rooftops and Podium Decks
- Basements, Foundations and DPC
- Reservoirs and other water retaining structure
- Swimming pools
- Road and Rail bridge decks
- Air port runways, Taxi ways, Aprons
- Tunnel and Subway systems
- Sewage and Water treatment plants
- Facades
- Precast elements and panels

Packaging

5 Kg., 20Kg., 200 Kg.

Physical Properties

Color:	Clear to Hazy
Specific Gravity:	1.1
Viscosity:	2.4 centipoises
Boiling Point:	219° F/ 104°C
Freezing Point:	28° F/ -4°C
Odor:	None
Fumes:	None
Environmental Hazards:	None
Toxicity:	None
Flammability:	None

Application

Concrete surfaces must be clean, dry and sound prior to applying DELTA SEAL 100. The use of compressed

air or brushing is recommended to remove all loose particles and dust from the surface. If the surface to be treated is heavily contaminated, use high pressure steam cleaning. The use of special concrete cleaning agents may be necessary for the areas contaminated with oil. All surfaces shall be completely dry at the time of application. The areas where leakage/ seepage exist, use DELTA PATCH n' PLUG followed by a brush coat of DELTA SEAL 100, and where segregation or voids are apparent, chip out, treat with DELTA SEAL 100 and then make good with DELTA RE-FIT non shrink mortar. Locate all the cracks and flood with solution ensuring that they are filled with product. Apply DELTA SEAL 100 to the remaining area in one single coat only by means spraying, sweeping and brushing. Wearing and trafficked areas can be opened for use in 1 hour of application.

Coverage

50 Ft²/ Kg.

Limitations

Do not apply DELTA SEAL 100 in the following cases:-

- When temperature falls below 5°C
- To areas previously treated with curing or sealing agents unless these coatings have been removed.
- Do not use or allow to come into contact with aluminum and glass, Crystallization will occur on surface, If contact occurs, wash out with water.
- Do not use on glaze tiles or glazed bricks. crystallization will occur on surfaces, If contact occurs, immediately wash off with water.

Storage

Two years shelf life when stored in cool dry place in un-opened container.

DELTA SEAL 100 VS CEMENTITIOUS CRYSTALLINE WATERPROOFING

The cementitious crystalline waterproofing is applied as a thin slurry coat. Such method has been inefficient because of complexity in application (Must block off and keep wet for four days) as well as its repeated maintenance due to surface adherence. The DELTA SEAL 100 is an affordable penetrating material that can address multiple significant water and moisture associated problems in concrete. It is not a protective membrane therefore treated areas can be opened for use within one hour of application.