

Delta Seal 200

A liquid Sealer for concrete waterproofing and cracks repair

Description

DELTA SEAL 200 is a spray applied liquid sealer which forms a sub-surface barrier that protects concrete against water penetration and seals existing cracks up to 1.25 mm. When sprayed onto a thoroughly cleansed concrete surface, it will react with the concrete to form a sub-surface barrier. This reaction product seals the pores, capillaries and cracks. As long as water is present, the product will remain active and seal future hairline cracks.

Advantages

- Seals existing cracks up to 1.25 mm; New hairline cracks will be sealed on contact with water.
- Protects against water, chloride and sulfate ingress.
- Increases resistance against chemical attack, carbonation and efflorescence. Will resist diluted acid or alkali attack.
- Sub-surface nature does not affect bond with subsequent product applications.
- Increases surface hardness (approx. 20 mm depth) to 8 on Mohr's scale.
- Simple, Fast and Economical application compared to alternative membrane systems. DELTA SEAL 200 is water soluble & complies with environmental, health & safety regulations.
- Trafficable within 6 hours after first water curing without affecting protection. Will not peel or scratch.
- Non-Toxic, Can be applied to potable water containing structures.

Fields of Application

- Concrete roofs
- Podium decks
- Airport Taxiways
- Bridges
- Parking Lot
- Sea Ports
- Concrete Highways
- Airport Runways
- Aircraft parking
- Tunnels
- Buildings
- Walkways

Packaging

16 lit. , 200 lit.

Test Results

Specific Gravity.	1.14
Viscosity.	2.4 centipoises
Freezing point.	-4 °c
Boiling point.	104°c
Environmental hazards.	None
Color.	Clear
Odor.	None
Toxicity	None
Fumes.	None
Flammability.	None

Surface Preparation

- Surface damage, such as honeycombs, voids, etc. must be routed out & repaired with Delta Refit mortar.
- Surface should be minimum 14 days old (28 days is recommended), clean, free of dust and dry (no damp areas)
- Any form work oil, curing compounds or previous treatments should be completely removed.
- Temperature should be between +5°C and +35°C.
- Avoid application when rain is imminent or in heavy wind.
- Old concrete and concrete affected by carbonation may need to be treated with calcium for adequate reaction.

Application

- Always agitate the product before use.
- Flood cracks with Delta seal 200 at approx. 1 lit./ 5 linear Meters.
- Apply product to surface at the recommended coverage rate. Spray at low pressure and in low wind conditions.
- When surface is dry to the touch (2-6 hours after application) flood surface with abundant water. If it rains before the product is dry, a second application is required after drying.

Crystalline Water Proofing

- 24 hours later, flood surface with abundant water.
- other 24 hours later, flood surface with abundant water yet again.
- After third flooding, the treated area can be ponded to verify the waterproofing performance.

Coverage

4-6 sq. meters per lit. (4 for rough and porous surfaces, 6 for very smooth, dense surfaces and 5 for normal surfaces)

Cracks: Additional 1 lit. per 5 linear meters

Equipment

This can range from simple hand spraying equipment for small areas to motorized spray units for large projects. With a simple backpack spray unit, a coverage of 100-150 sq. meters per hour can be achieved. After application, all equipment should be thoroughly cleaned with water.

Limitations

- DELTASEAL 200 should not be used as a replacement or a solution for poor design, detailing or workmanship.
- DELTASEAL 200 is not suitable for repair of structural or design cracks. For cold joints, expansion joints, penetrations and pour joints, products such as waterstops, & elastomeric sealants should be applied in addition to DELTASEAL 200
- DELTASEAL 200 can be used on concrete that contains fly ash, slag or silica fume, unless these ingredients exceed 30% of the total cementitious materials in the concrete mix.
- Large cracks should be ponded with DELTASEAL 200 creating a small dam.

Safety Precautions

Avoid skin and eye contact. If contact is made, flush areas with lots of water. Protective gloves should be worn. Breathing apparatus is advised if applied in enclosed environments.

Do not spray DELTASEAL 200 onto glass, aluminum, wood or painted surfaces. In case this happens, remove the product with water.

Storage

DELTASEAL 200 must be stored under ROOM TEMPERATURE. Cold temperature may cause the product to crystallize. Shelf life is ONE YEAR in its original unopened packaging.



**Delta Coatings
& Sealants**