

Delta Pavex

An Ultimate Treatment & Protection for Airport Runways, Bridges and Concrete Structures

Description

DELTA PAVEX is a unique water based chemical solution for the ultimate treatment and protection of large scale concrete substrates against temperature and moisture associated problems such as thermal cracking, damage caused by repeated freeze and thaw cycles, chloride ion penetration and alkali silica reaction.

DELTA PAVEX treated concrete is reasonably dry and thus eliminate all moisture associated problems. It creates a three dimensional mechanism for concrete protection in all weather conditions. It provides moisture repellency and formation of two types of crystals in concrete, one type of crystals in presence of water swells and block pores, whereas the second type of crystals absorb the extra moisture on the surface of the first crystal preventing surface moisture on that crystal from diffusion to the concrete. These hygroscopic and hydrophilic properties provide double and durable action against moisture protection in concrete.

Advantages

Permanent internal waterproofing and moisture blocking from positive and negative sides.

Prevents water, jet fuel and oil penetration from the surface of concrete.

Resists aggressive chemicals such as acids, caustic, jet fuel and oil.

Protects reinforcing steel bars against corrosion without any negative effect on existing steel cathodic protection.

Enhances the adhesion property of joint sealants and concrete road markers.

Reduces Alkali silica Reactions (ASR), thus eliminates silicate dusting.

Prevents penetration of chloride ions from de-icing salts.

Eliminates damage caused by repeated freezing and thawing cycles.

Prevents concrete scaling.

Increases concrete hardness.

Seals and protects cracks up to 1.5 mm.

Designed for continuous water contact with the concrete, like seaports.

Provides a non-slip finish of concrete roads, runways, walk ways, etc.

Fields of Application

DELTA PAVIX can be used as a treatment and protection against water and moisture associated problems for all kinds of concrete and cement structures. However, it is considered highly cast effective for the treatment of :-

Airport Runways	Airport Taxiways
Aircraft parking	Bridges
Tunnels	Concrete Roads-Highways

Parking Lot

Sea Ports

Buildings

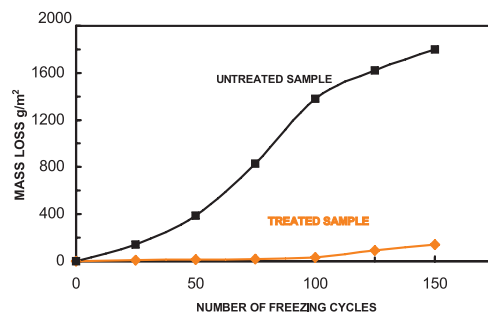
Walkways

Packaging

16 lit., 200 lit.

Test Results

Specific Gravity.	1.07 ± .01
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



Product Performance

DELTA PAVEX complies with the following standards:-

- ASTM C 666, Resistance of Concrete to rapid freezing & thawing.
- ASTM C 672, Scaling resistance of concrete surface exposed to de-icing chemicals.
- ASTM C 1218, Water-soluble chloride in mortar and concrete.
- ASTM C 944, Abrasion resistance of concrete surface.

Crystalline Water Proofing

ASTM F 609, Static slip resistance.
A STM E 303, British Pendulum Test.
ASTM D 4541, Coating Pull Off Strength.

Application

Concrete surface must be clean and sound prior to application of the product. Cleaning will open the surface pores and capillaries in order to enhance the penetration process. Compressed air can be used to remove dust and loose particles from the surface. Flushing the area to be treated with water can improve the cleaning process, however for heavily contaminated areas, special concrete cleaning agents such as muriatic acid (HCl) can be used to remove dirt especially those contaminated with oil. The surface must be allowed to dry prior to applying DELTAPAVEX. For a new concrete, DELTAPAVIX can be applied to concrete surfaces in one single coat by means of spraying, sweeping or brushing. For old deteriorated concrete, a second coat can be applied **only within the first 15 minutes of the application of the first coat.** For large-scale applications, such as airport runways, it is recommended to spray the product using a heavy duty commercial sprayer.

Coverage

It is recommended to apply DELTAPAVIX at an average rate of 4.2 m² / lit. in one coat.

Limitations.

Do not apply DELTAPAVIX in the following cases.
If temperature falls below 5°C.
To areas previously treated with sealing agents unless these sealers are removed by chemical or mechanical means.

Storage

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

SAFETY PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN & ANIMALS



**Delta Coatings
& Sealants**