

Protekta Silane Cream

A silane-siloxane based thixotropic cream

DESCRIPTION

Protekta Silane Cream is a remarkable anti-corrosion and anti-carbonation product. The low molecular weight, low volatility and creamy consistency of Protekta Silane Cream ensure deep penetration and high water repellency can be achieved even in the most dense concrete. As a thick cream it is to ensure uniform application and is easy to see what surface is covered.. Once the product has been applied to the concrete surface, it penetrates deeply and binds forming a permanent hydrophobic layer, which resists water, chloride ion and other pollutants.

Depending on the surface, Protekta Silane Cream can reduce water absorption almost completely by upto 94%; the chloride ion absorption rate is also dramatically reduced, by nearly 96%.

USES

It can be used in reinforced concrete structures including bridges, piers, concrete roadways as well as natural stones granite and marble.

ADVANTAGES

- Extremely good anti-corrosion and anti-carbonation protection for reinforced concrete protecting the reinforcement by over 4 time when compared to untreated concrete
- Reacts chemically with the concrete to form a hydrophobic chloride / carbon dioxide resistant zone
- Penetrates deeply
- Simplified application on overhead and vertical surfaces due to its thixotropic (creamy) consistency

- The product does not splash or run off uncontrollably, protecting with user and environment
- Can be applied easily to a surface standing under it as it will not fall onto applicator

APPLICATION

1. The surfaces should be clean and free from dust, loose particles, oil and grease.
2. A patch test should be performed on the surface, prior to treatment.
3. Protekta Silane Cream can be applied to the dry concrete surface by brush or roller or airless spray gun.
4. One coat is usually sufficient (depending on the depth of impregnation specified and density of the concrete, the application rate may vary significantly)
5. Allow to air dry, cream will penetrate and surface will return to original unchanged look and water repellency will be visible within 24 hrs after drying.

TECHINCAL DATA

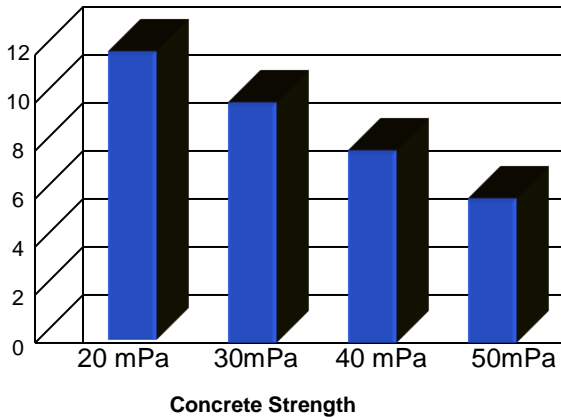
Appearance	: Thixotropic Cream
Colour	: White
Active ingredients	: 85%
Density	: 0.9-0.91 gm/ml
Flash point	: >63°C
pH value	: 7-8
Solubility in water	: Miscible

PERFORMANCE

DEPTH OF IMPREGNATION

Protekta Silane Cream penetrates evenly and deeply into high quality concrete. A single application of 200ml/mt² can penetrate up to 12mm into 20 mPa concrete. Figure below shows the penetration depth of solid silane

with concrete of different strength.



WATER AND CHLORIDE ION EXCLUSION

Protekta Silane Cream significantly reduces the water and chloride ion absorption of the treated concrete. Table below shows that the water absorption rate of Protekta Silane Cream treated concrete can be reduced by about 94% comparing to that of untreated concrete. The chloride ion absorption rate can be reduced by about 96%.

Reduction of water and chloride ion absorption

	Water absorption	Chloride ion absorption
% Reduction of absorption rate by weight	94.3%	>96-99%

DOSAGE

25 – 30 sq.ft /L

PACKING

20L, 50L (Other sizes available upon request).

SHELF LIFE

Six months in a closed uncontaminated container. Should be used before the use-by-date printed on the container. However if the product is past its use-by-date it is not necessarily unusable. A quality control test should be performed on the properties relevant to the application or the manufacturer contacted for further advice. Product older than one year should be discarded.

STORAGE

Once opened, remaining material should be sealed and stored in a cool, dry place. Care should be taken to always keep product away from extreme heat or direct sunlight.

HEALTH & SAFETY

Non-hazardous, non-toxic, non-flammable.

IMPORTANT NOTE: Protekta products are non-hazardous when properly handled, stored and applied. When handling suitable protective clothing should be worn. The materials should not be ingested, inhaled or make skin contact. MSDS are available.

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