

TECHNICAL DATA SHEET

Triguard SIL290

Penetrating nano water repellent Coating



Triguard Sil290 is an oligomeric Organosilane unique liquid to form stable water repellent. Triguard Sil290 is low viscosity liquid with an optimum concentration of reactive hydrophobic silane-siloxane in solvent carrier.

Triguard Sil290 works by impregnating into pores, voids, capillaries and cracks of masonry and concrete forming excellent hydrophobicity on the surface.

Advantages:

- Transparent, Non-staining - Does not adversely change the natural surface appearance.
 - Prevents ingress of water borne chlorides and sulphates Doesn't block concrete breathing.
 - Excellent for tropical climate.
 - Becomes an integral part of the substrate hence no peeling off or erosion.
 - Protects surface and enhances life of paint.
 - Protects paint from discoloration and pollution.
 - Excellent anti carbonation properties.
 - Excellent water repellent characteristics.
 - Single component hence easy to use with optimum economy.
 - Chemical resistant to fuels and oils.
 - Compatible with solvented surface coatings.
- Deep penetration in the substrate enhances long lasting results

Uses:

- To treat concrete against ingress of water and water borne salts.
- To minimize efflorescence in masonry structures.

- To create water repellency in bricks and concrete blocks.

Typical Properties:

- APPEARANCE : Clear % Slight hazy Liquid.
- VISCOSITY @ 25 Deg C. cps : 0.0-10.0
- % solid content @ 110/1hr. : 13.0 – 17.0

Surface Preparation:

The entire surface which is going to receive application of Triguard Sil290 must be cleaned to remove all laitance, construction dust and cured mortars if any. Any loose, disintegrated or cracked mortar need to be repaired with ready to use non shrink expansive ready to use industrial mortar, cure it properly and fully.

Surface barriers like curing coatings, mould release agents, can effect penetration of Hydrorepel 290 badly, hence surface preparation and removal of the membranes, coatings etc plays pivotal role. Ensure to remove all contaminants and surface barriers by using mild detergent and water and thoroughly scrubbing by wire brush and clean with fresh jet water ensuring dust free surface, allow this surface to dry completely.

The entire surface which is going to be applied by Triguard Sil290 need to be free from biological organism like moss or algae.

Application:

can be used direct from the container, no mixing on site is required, stir the drum before use. Do not dilute with water or solvents. Apply by brush, low pressure spray ensuring full saturation. Pump and nozzles must be clean and dry for proper application. On vertical surfaces Triguard Sil290 should be applied from bottom working steadily upwards in a flood coat so as to produce proper run down on the surface below the contact point of the spray. When used as a protective impregnation a minimum of two applications is being recommended wet on wet.

Application should be at the given coverage rate of 5 to 9 m²/liter per coat. Avoid application on wet or damp surface strictly. Before use do not dilute with water or solvents.

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Watch Points:

- Surface must be dry, clean from loose and foreign material.
- High winds may interfere with application.
- Protective barriers may be used.
- Protect from inhaling solvent vapors
- Avoid application on non porous substrate. Triproof Sil 290 won't penetrate in the non porous substrate but may leave residue.
- Trials are recommended for exact look after application on different substrate.
- Triguard Sil290 will not inhibit water penetration through unsound or bigger cracked surfaces.
- Do not apply if rain is expected within 6 hours.

Cleaning of Equipments:

- Equipments should be cleaned with MTO, Xylene or Toluene immediately after use.

Coverage:

- Coverage will depend upon the porosity of the substrate. To ensure proper coverage test a small area to have general idea of coverage.
- Minimum 2 coats are recommended to ensure proper result.

Packaging:

- Triguard Sil290 is available in 5 ltrs, 30 ltrs, 50 kgs carboys and 210 ltrs MS Drums.

Storage and Shelf Life:

Store under cover, out of direct sunlight and protect from extreme temperature. In tropical climates the product must be stored in covered warehouse.

Shelf life is 12 months if stored in sealed original container. Failure to comply with recommended storage may result in premature deterioration of the product or packaging. For specific storage guidelines please consult TRI POLARCON technical service department.

Safety Precautions:

As with all chemicals products, care should be taken during use and storage to avoid eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal container after use. Do not reuse containers for storage of consumables. For further information refer to material safety datasheet. MSDS is available on demand.

Note:

All TRI POLARCON technical data sheets are updated on regular basis; it is the user's responsibility to obtain the most recent technical data sheet.

Field services where provided, doesn't constitute supervisory responsibility, for additional information contact your local COMPANY representative.

DISCLAIMER

The Company's Products are sold subject to the Company's Standard Terms and Conditions of Sale. Products are warranted against defective materials and workmanship. The Company makes every effort to ensure that all the information, recommendations or the specifications provided by it are accurate and true. However as the Company has no control over the conditions of use; it cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.

Mfg. & Marketed by:-

TRI POLARCON PVT. LTD.

**Mfg of epoxy floor coatings, Sealants,
Waterproofing chemicals & Construction Chemicals.**

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