

Talrakote® WR Nano

Solvent based nano structured clear water repellent coating for mineral substrates



The Construction Alchemists

Description

Talrakote® WR Nano, is a high performance solvent based nano-structured clear water repellent coating for Concrete, Plaster and masonry substrates. It can also be applied on painted surfaces.

Features & Benefits

- Very low viscosity, can be sprayed or brush applied.
- Highly efficient water repelling action on vertical and horizontal surfaces.
- Prevents water absorption by the applied surfaces.
- Can be applied on the painted surfaces.
- Transparent- No colour change of the substrate after application.
- When applied on the reinforced concrete surface, acts as a barrier coat for water soluble chlorides hence increases durability of the RC structures.

Primary Application

Talrakote® WR Nano can be used on exterior walls in building, facades and as a protective coating for reinforced concrete members.

Technical properties

Colour	Transparent
Specific Gravity	0.78 +/- 0.10
Viscosity	2.3 to 2.5 cP at 25°C
Drying time (max.)	30 minutes at 30°C
Over coating time (Hour)	1.0
Contact angle on concrete	110 -130°
Recommended no. of coats	2
Lowest Vaporizing Temp.	14°C
Auto-ignition Temp.	400°C

Specification clauses

The water repellent shall be a functional silica based nano-structured solvent liquid, when applied by spray or brush shall repel water without wetting the surface of the substrate with a contact angle of 110° to 130°. The material shall hydrophobe all mineral substrates such as cementitious, and masonry surfaces.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

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Application Instruction

Surface preparation

The surface on which the material is to be applied shall be free from dust and any other loose particles. This can be well achieved by blowing a compressed air on the surface.

Application

Talrakote® WR Nano, shall be spray applied or brush applied in such a way that the surface is completely covered with out any uncoated patches left behind. The second coat shall be applied after the first coat is dried up completely, which will take approximately 30-45 minutes.

While applied by spray care shall be taken that no wind blows in the direction normal to the application to ensure that the sprayed material deposits properly and evenly on the surface. The nozzle pressure shall be set at around 0.3 to 0.4 MPa and the nozzle orifices 1.5 to 3.0mm. The nozzle shall be held perpendicular to the surface at a distance of about 0.5 m from the target. Excess spray will not give any additional benefit.

In case of brush application, a smooth, dense nylon brush with soft bristles should be used. The application should start from top working downwards. The application direction of the second coat should be at right angles to the first. Excessive brushing will not give any additional benefit. The application temperature should be between 15°C to 35°C. The thickness of the coat when applied as above will be about 2-3 microns.

Cleaning

The tools and hands shall be cleaned washing thoroughly with clean water followed by wiping off with dry cloth.

Estimating Packaging

Talrakote® WR Nano is supplied in 20 liter packs.

Coverage

Theoretical coverage is 10m² / liter at 1 micron thickness per spray /coat. However, the actual coverage will depend on the method of application, surface texture and porosity of the substrate.

Storage

Replace lid of the container tightly after use to minimize evaporation losses. Store in a cool dry shaded place below 25°C.

Precautions

Health & Safety instructions

May be harmful if swallowed. In case of ingestion, seek medical attention. Wear eye protection, gloves and mask while working. No added lead, mercury or chromium compounds. Toxicity: Non-Toxic LD50-13000mg/kg.

Important note :

Talrak products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Talrak endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

Ref : TCC/TDS/PC09 - R0