

Talrakseal® VF

Polymer-modified, cementitious void filling mortar



The Construction Alchemists

Description

Talrakseal® VF is a thixotropic, polymer modified, self-curing, cementitious compound for sealing tie holes, deep and narrow voids. It is a non-shrink compound that effectively seals the voids after completion of curing time thus completely waterproofs the voids and holes. It has an excellent adhesion characteristics and provides a dense seal with concrete/cement colour. It can be coated with paints or any other surface finish. It is a ready to mix powder which requires only addition of water at site to produce a thixotropic sealing compound that can be applied into the hole using a caulking gun.

Features & Benefits

- Effective sealing of holes and voids in vertical, horizontal and inclined planes in any mineral substrate
- Ready to mix powder, needs only addition of water
- No shrinkage
- Non-toxic: ideal for potable water tanks
- Excellent bond to concrete and masonry without priming
- Weather tolerant
- No additional curing required
- Water resistant upon curing

Primary Application

Talrakseal® VF is an effective caulking and sealing cementitious compound used for sealing tie holes in Mivan and other types of shuttering/formwork. It is suitable for all types of structures including normal constructions, tunnel forms and precast formworks. It is suitable for horizontal, vertical and inclined planes. Ideal for sealing tie holes in retaining walls, shear walls, tunnel forms etc.

Technical Properties

Pot life	30 mins @ 30°C
Water/powder ratio	0.24-0.25
Fresh wet density	1.75-1.9 g/cc (paste consistency)
Appearance	Grey
Compressive strength @ 28 days	12-15 MPa
Pull-out adhesion strength @ 28 days	1.5 MPa
Adhesion to concrete	Excellent
Application temperature	Not less than +10°C
Toxicity	Non-toxic
Shrinkage	Nil

Application Instructions

Surface Preparation

The surface that comes in contact with the mixed Talrakseal® VF must be clean, sound and free from bond breaking materials such as grease, wax, laitance, dust etc., Talrakseal® VF is suitable for any mineral surfaces like concrete, plaster and masonry. The surface should be in saturated dry condition. Use suitable brush such as bottle brush, emery, rolled on a cylindrical shaft to clean the interior of the round holes. For the holes of other shapes suitable tools are recommended e.g., wire brushing, vacuuming etc.,

Mixing

Add Talrakseal® VF ready to mix powder into 6 to 6.25 litres of clean cool water per 25 kg bag. Mix until a uniform lump free paste is obtained using an electric mixer with low rotation speed (< 500 rpm). However, the mixing time shall not be less than 3 minutes. Let the paste rest for a few minutes to disappear all the bubbles before starting the application. After that, Talrakseal® VF mix should be immediately filled into the caulking gun and then plunger and then nozzle are fitted in place.

DO NOT ADD EXCESS WATER. Further water addition than recommended proportion will alter the strength and adhesion properties of Talrakseal® VF.

Application

The nozzle of the caulking gun shall be inserted all through the hole/void and the material is slowly squeezed in while withdrawing the nozzle as the void fills. Care should be taken not to entrap air while squeezing the material into the void/hole. The pressure and the speed of the operation is properly synchronised to compact the material into the hole without air entrapment. If needed an extension to the nozzle can be attached in the form of a flexible plastic tube to reach the end of deep holes. Once the void is completely filled, the material should be finished in flush with the surface using a trowel.

Cleaning

The wet Talrakseal®VF should be removed from tools and equipment with clean water immediately after use. Hardened material can only be removed mechanically.

Estimating

Packaging

Talrakseal® VF is supplied in 25kg HDPE bags.

Yield

The approximate yield per 25 kg bag for paste consistency is about 17.0 liters. Allowance should be made for wastage when estimating quantities.

Storage

Talrakseal® VF has a shelf life of 6 months if kept in dry store in original, unopened containers. If stored at high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety Instructions

Talrakseal® VF is non-toxic but contains cement powders which when mixed with water releases alkalis that could be harmful to the skin. It is preferable that the application be done in a ventilated area and to wear protective gear for hands, eyes and respiratory system and to avoid breathing of the dust. Splashes on the skin should be washed away by cleaning thoroughly with soap and water. In case of contact with eyes, wash thoroughly with clean water and seek medical attention. If swallowed, do not induce vomiting and seek medical attention.

Fire

Talrakseal® VF is non-flammable.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

Works:

Plot No. 115-A, 1st Phase. Harohalli Industrial Area,
Kanakapura Taluka - 562 112. Ramanagar Dist.
www.talrak.in

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