

Talrak® Stybutex LP

SBR Liquid Polymer for site - prepared waterproofing slurry coat on concrete & mineral surfaces



The Construction Alchemists

Description

Talrak® Stybutex LP is a single component SBR based polymer when blended with cement forms a composite polymer modified cementitious waterproofing system, when used in conjunction with fibre mesh forms a tough hard wearing surface.

Features & Benefits

- Can be applied in uniform thickness to horizontal and vertical surfaces
- Develops excellent bond with most mineral surfaces
- Improves adhesive and tensile properties of cementitious Slurries
- Reduces efflorescence in concrete
- Alkali and ultraviolet ray resistant
- Compatible with damp surfaces
- Non toxic

Primary Application

Talrak® Stybutex LP in conjunction with cement provides a seamless waterproof coating to concrete and masonry surfaces. It can be used as a waterproofing or protective coating.

The typical areas of application are:

- Waterproofing of toilets, terraces, water retaining structures
- Waterproofing of general cementitious rendered surfaces

Technical Properties

Pot life of mixed material	20-30 minutes
Density of mixed material at 30°C	2.1-2.2 g/cc
Colour of mixed material	Dark Grey
Application Temperature	+10°C to +35°C
Bond strength with concrete	> 1N/mm ²

Compatibility

Compatible with most of the commonly available cements and other binders. However, site trials are recommended to ascertain compatibility with secondary cementitious materials like flyash, GGBFS etc. or mixtures thereof before use.

Application Instructions

Surface Preparation

Prior to application of Talrak® Stybutex LP, surface must be prepared as mentioned below to avoid failure :

The surface shall be cleaned to remove all dust, foreign matters, loose particles or any deposits of contamination which could affect the bond between the surface and the coating. This can be done by scarifying, grinding, water/wet sand blasting, power brushing or by any other approved method. New flat surfaces like sub-base concrete shall be made reasonably smooth so as not to impede the application of Talrak® Stybutex LP coating and to avoid sharp projections. All concrete surfaces shall be thoroughly pre-wetted for at least one hour prior to the application of Talrak® Stybutex LP coating by pouring water on flat surface or by vigorously spraying water on vertical/inclined surfaces. Ensure that surface is only damp during application of Talrak® Stybutex LP coating. In no case there should be standing water or a excessive wet surface.

Depressions are filled and levelled using Talrak® Stybutex LP modified Mortar prepared as described as follows :

Mix ingredients at a proportion of 1 kg cement:1.5 kg silica sand and 0.5 kg Talrak® Stybutex LP thoroughly using enough water to get a mix of trowelable consistency to use as a filling mortar.

Mixing

Talrak® Stybutex LP Polymer is mixed with neat cement in the ratio of 50 kg cement:20kg of Talrak® Stybutex LP and 5 kg of water. The mix has to be stirred thoroughly preferably using a paddle mixer until no air bubbles remain in the mix. Any lump found in the mix should be removed.

Application

The mix has to be applied by brush on rendered sound prepared surface. Two or more coats are recommended. First coat should be allowed to dry for 5-6 hours before the second coat is applied. The brush strokes shall be at right angles to the previous coat. The surface should be made wet before application incase of porous substrates. Equipment immediately after use with clean water. Hardened material can be removed mechanically.

Curing

During the first 12 hours of curing, the coating must be protected from abrasion, rain and other adverse conditions. No traffic shall be allowed on a Talrak® Stybutex LP treated surface within 48 hours after application. After application of final coat of Talrak® Stybutex LP slurry, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing. In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating. After maximum period of 6 hours of the final application moist curing shall be done for the next 24 hours by way of spraying water on Talrak® Stybutex LP slurry coating. During this period at no point of time should the Talrak® Stybutex LP coating be left completely dry or submerged in water. Following moist curing, the Talrak® Stybutex LP slurry coat shall be allowed to air dry for 3 days before submersion in water if required for use.

Cleaning

Talrak® Stybutex LP should be removed from tools and equipment immediately after use with clean water. Hardened material can be removed mechanically.

Estimating Packaging

Talrak® Stybutex LP is supplied as a package of 5kg & 20kg container.

Yield

Talrak® Stybutex LP Coating/Slurry Mix Proportion : 50 kg cement : 20 kg Talrak® Stybutex LP : 5kg water will yield about 40.0 Litres of slurry.

Coverage

The theoretical coverage of Talrak® Stybutex LP slurry coat at recommended proportion of mixing prepared using one bag of cement (50 Kg) will cover about 40m² when applied on a smooth and prepared surfaces at 1 mm thickness. However, the practical thickness may vary if the surfaces are rough, undulated with local depressions and protrusions. For a given surface the actual consumption may be determined by doing a mockup application on a sample area.

For critical applications a coating thickness of atleast 1.5mm is recommended which can be built up in two coats.

The theoretical coverage of 1bag cement Talrak® Stybutex LP slurry mix at 1.5mm thick will be 26.7 m².

Storage

Talrak® Stybutex LP has a minimum shelf life of 12 months if kept in the original, unopened container. If stored in high temperature and/or high humidity conditions the shelf life may be reduced.

Precautions

Health & Safety Instructions

Talrak® Stybutex LP is non-toxic, non-inflammable, any splashes should be washed well with water. Contact with eyes shall be avoided. In case of contingency seek medical advice immediately.



Talrak Construction Chemicals Pvt. Ltd.

An ISO 9001:2015 Certified Company

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