

TECH-DRY

Protekta 400

APPLICATION

USES

Flexible waterproofing slurries are used for the protection of reinforced or prestressed concrete exposed directly to the elements, with the aim:

1. To prevent penetration of water into the concrete to such an extent that further corrosion of reinforcement could be retarded.
2. To hinder penetration of chlorides into the concrete, e.g., in zones of road bridges exposed to spraying water and/or to prevent the advance of carbonation in the event that the concrete cover is not sufficiently compact and/or is too thin.

Meets the requirement of DIN 53479

DESCRIPTION

This is an Aqueous, anionic, dispersion of an acrylic-styrene copolymer based formulations specially prepared for making flexible mortar.

Flexible waterproofing slurries or flexible waterproofing mortar based on modern polymers are a very useful concept in building protection, like mortar where cement forms a firm frame work in the presence of water. The polymer bonds the mixture of sand and cement to yield a soft and flexible structure.

Latex modification of cement mortar and concrete is governed by both, cement hydration and polymer film formation processes in their binder phase. The cement hydration process generally precedes the polymer formation process. In due course, a co-matrix phase is formed by both cement and polymer film formation process.

It is believed that a co-matrix phase, which consists of cement gel and polymer films, is generally formed as a binder.

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.

WARRANTY:

The information given in this data sheet is based on many years of experience and is correct to the best of our knowledge and should be used only as a guide. Tech Dry (India) Pvt Ltd reserves the right to alter certain product parameters within the spectrum of properties in order to keep abreast of technical advances. The information in this document is based on the present state of our knowledge and is applicable to the product. Tech Dry (India) Pvt Ltd is responsible for the quality of the product at the time of despatch but is not responsible for its quality after subsequent storage, handling and application. Neither Tech Dry (India) Pvt Ltd nor its associated companies shall be held liable for any damage resulting from the handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

- 2 coats of total thickness 2-3mm that seal even the coarser pores in concrete and thus ensure effective long-term protection
- Great flexibility
- Effective seal against moisture, i.e., against capillary water absorption and water under pressure, as a result of which the concrete is also protected from chlorides if it is exposed to road salt.
- Very effective barrier against carbon dioxide diffusion
- Can also be applied on moist substrates
- Specially good for the manufacture of systems used to bridge cracks and for flexible coating on flat roof.

TECHNICAL DATA

1. Ultimate elongation : 890%
2. Water absorption 48 hrs : 10.7%
3. Tensile strength : 0.3 N/mm²
4. Resistance to UV light : very good
5. CO₂ diffusion resistance : R_B = 480
6. pH : 7.5-8.5

DOSAGE:

- 1.2 sq. mt. per litre of sealant Protekta – 400
- Ratio of cement : sand is 1:2 for which 1ltr of Sealant Protekta-400 is required

SHELF LIFE: 6 months in a closed uncontaminated container and should be used before the use-by-date printed on the container. However if the product is passed its used-by-date it is not necessarily unusable. A quality control should be performed on the properties relevant to the application or otherwise contact the manufacturer for further advice

STORAGE: To be stored in closed containers in a cool place and prevent from extremes of heat

HEALTH & SAFETY: Non-Hazardous, Non-toxic, Non-flammable

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