

USES

As a barrier to the ingress of water in mineral building materials such as concrete, brick, block work, stone, mortar, render, grout and absorbent tiles. **Protektacrete-WB** significantly reduces damage such as efflorescence, erosion, and spalling which is caused by the ingress of water and water-borne salts into masonry materials.

As masonry materials vary, it is always recommended that a test must be carried out prior to application to find out the suitability of this product for the purposes. It is also important that the applicator should perform trials in a small scale before application.

OUTSTANDING FEATURES

- Penetrates deeply into masonry substrates.
- Not a surface coating and therefore no peel or blister.
- Easy application, no volatile hydrocarbons emitted during use.
- Excellent surface beading effect.
- Does not significantly change the original surface appearance.
- UV and alkali stable formulation.
- Reduce water and chloride ion ingress by up to 95%.
- Reacts chemically with masonry substrate to form a water repellent layer within the surface.
- Non-corrosive, non-toxic formulation and non-dangerous good.
- Water-based product and clean up all equipment in water

DESCRIPTION

Protektacrete-WB is a water-based silane/siloxane emulsion impregnant which has been formulated to impart excellent water repellency to a wide variety of mineral building materials. The product is designed to penetrate into the first few millimetres of the surface and render the substrate water repellent. This water repellent zone dramatically reduces the absorption of water and water borne salts, while

still allowing the free passage of water vapour. Due to the water-based composition of **Protektacrete-WB**, the release of hydrocarbon solvents is avoided.

PERFORMANCE

The performance of **Protektacrete-WB** can be seen in **Figures 1** and **Figures 2**. The product was flood applied to four week old cement mortar discs (cement/sand/water ratio of 1/3/0.5, **Figure 1.**) and brick samples (**Figure 2.**). The water absorption of the treated substrates was measured by placing the samples on a water-saturated sponge and measuring the increase in mass over time. The results show a dramatic decrease in water absorption relative to the untreated sample.

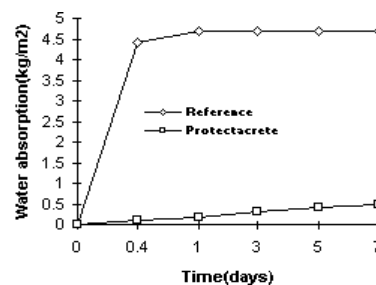


Figure 1. Performance on cement mortar

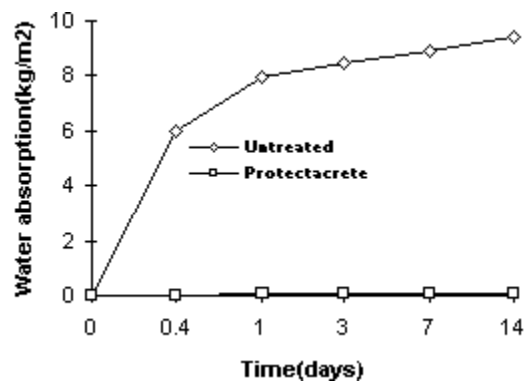


Figure 2. Performance on brick

COVERAGE

Very porous	: 20 sq. ft per ltr
Porous	: 30 sq. ft per ltr
Dense	: 50 sq. ft per ltr
Very dense	: 80 sq. ft per ltr

APPLICATION

- The surface to be treated should be dry, firm, and free from grime, oil surface coatings and laitance. If the surface is dirty, the dirt should be removed by washing with water, or water and detergent and be allowed to dry thoroughly. All cracks greater than 0.3mm should be filled. It is essential that the surface be free of oily products and not have surface coatings present.
- Do not apply if rain is expected or if conditions are damp and cold (below 10°C) or if excessively hot and windy.
- Do not splash or spray the product onto any area you do not wish to treat. If splashes occur the product can be washed off with water before it dries. If the product has dried it can only be mechanically removed.
- Shake the drum of Protektacrete-WB before use.
- This product should not be used past its use-by date printed on the label.
- The ready to use solution is applied to the surface by saturation flooding using a hand pressure spray applicator or airless spray equipment set to "wet spray" conditions. The product should be applied as a stream which runs down the wall approximately 30-40cm. A second application should follow a few minutes after the first application. This is termed a "wet-to-wet application". The object is to saturate the surface so that the product can penetrate as far as possible into the surface. A matte wet surface should be left after the second application. In the case of horizontal surfaces do not leave pools of the product to dry on the surface. Remove any excess product with a clean, lint-free cloth.

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.

- The consumption for one wet-in-wet application should be in the order of 0.25-0.5 litres per square metre.
- The initial surface water repellency will take about 4 hours to develop. The product will fully cure in 7-14 days.
- Clean up all equipment in water.

SAFETY INFORMATION

HANDLING: Is a non-flammable, non-corrosive and non-toxic water-based product. However, as with all chemical products, good industrial hygiene procedures should be used when using this product. Skin and eye contact should be avoided by using suitable protective measures such as chemically resistant gloves and goggles. Wash all spills with plenty of water.

STORAGE: Should be stored in closed containers in a cool dry place. The product should be protected from freezing and stored within temperature at 5°C - 35°C.

SHELF LIFE

This product has a shelf life of 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 use-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.

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