Tech-Dry®

PRODUCT INFORMATION

Manufacturer's Code: RPSR	**Updated:** 22/09/2014

Product Name: SALT RETARDER

Description: SALT RETARDER is a water repellent admixture which inhibits the permeation of salts and water when added to cement/sand renders. SALT RETARDER is a 3 in 1 admixture which provides water and salt resistance to cement/sand render and plasticises the render mix. Using SALT RETARDER in cement/sand render mix eliminates the need for separate plasticisers and water-proof additives.

Recommended Uses: SALT RETARDER is recommended as a water repellent admixture for a cement/sand render specifically after the installation of a silicone damp course to prevent residual salt and water migration. It may also be used on a new wall to provide water/salt-resistance to cement/sand render. SALT RETARDER can also be used as a water repellent admixture for cement/sand mortars. Some of the important features of SALT RETARDER include:

- Non-toxic water-based formulation.
- Improves workability of cement/sand renders.
- Increase adhesion of cement/sand renders.
- Reduces water penetration, efflorescence and water-borne staining.
- Does not significantly change vapour permeability of cement/sand renders.
- Easy to use and cost effective.

As cement/sand renders vary significantly, a test MUST be carried out prior to application to find out the suitability of this product for the purpose.

Use Instructions: <u>Application</u>
Please read the product information for the correct application and safe handling before use.

For maximum effectiveness the cement to sand ratio should be 1 to 3. Other cement to sand ratio may be used, however, the performance of SALT RETARDER may be affected. Therefore trials must be conducted to determine the best cement to sand ratio to suit the individual application.

Lime, plasticiser or other admixtures may be added but is NOT recommended. Applicators must perform trials on a small scale before application to determine the best render ingredients in the render mix containing SALT RETARDER to suit their individual applications.

If a typical mix contains 40Kg of cement and 120 kg of sand, the procedure is: Measure out 1 litre of SALT RETARDER and dissolve it in 20 litres of clean water. Blend the cement/sand render mix while adding this SALT RETARDER solution. Add clean water if required to attain the desired consistency.

<u>Dosage rate</u>

1 litre of SALT RETARDER per 40kg of cement is recommended for a general cement/sand render mix. However, as masonry materials vary, dosage rate may vary significantly from 0.75 to 1.5 litres per 40kg of cement. The applicator should carry out trials to determine the best dosage rate for their particular application.

Pilot testing and quality control

Please note that SALT RETARDER may cause some property changes to the render mix. SALT RETARDER improves workability of the render but may cause the render mix become too runny to work with. It may also slow the curing of the render mix particularly when the ambient temperature is low. These problems may be solved by altering the dosage rate of the SALT RETARDER or adding other admixtures such as cement accelerator providing enough water resistant effect of the render is achieved and correct adhesion/workability of the render is retained. Due to the variation of masonry materials, it is strongly recommended that a pilot test on a small scale on site should be conducted prior to application to find out the suitability of this product for the purpose under different conditions.

Typical Data:

Appearance:	Pale yellow clear liquid
Solids content:	<50% by weight
Specific Gravity:	1.0 g/ml at 20 ^{o}C
pH value:	8-9
Solubility in water:	Soluble in water
VOC content:	Nil
Flash point:	Not allocated

Important Note: SALT RETARDER is a water repellent admixture, which works by depositing hydrophobic materials into the render matrix while not significantly blocking the capillaries or affecting the vapour permeability. It reduces water absorption by capillary action. However, it has a limited resistance to water penetration particularly under prolonged contact or hydrostatic pressure. Therefore, in some cases where the render is very permeable or there is extreme wind driven rain, resistance to water penetration or water-borne staining may not be adequate.

SALT RETARDER may precipitate solids at temperatures below 10°C, but it can re-liquefy at higher temperatures after an extended period. The product should be therefore stored at above 10°C to avoid possible precipitation. Please make sure the product is in a liquid form when adding into render mixes.

Handling & Storage: SALT RETARDER is a non-hazardous material. However, as with all chemical products, good industrial hygiene procedures should be followed when using this product. Vapour inhalation and skin or eye contact should be avoided by wearing proper protection. Wash hands after handling. The product should be stored in closed containers in a cool dry place away from any fire or ignition sources at a temperature preferably between 10°C to 25°C. The product has a shelf life of 12 months in a sealed original container.

Use with sufficient ventilation!

Keep out of reach of children!

Packaging: SALT RETARDER is available in 5, 20 and 200 litre plastic drums.

Disclaimer:
The information given in this data sheet is based on many years of experience and is correct to the best of our knowledge. As the storage, handling and application of this material are beyond our control; we can only be responsible for the quality of our product at the time of dispatch. We reserve the right to alter certain product parameters within the spectrum of properties in order to keep abreast of technical advances. It is the responsibility of the end user to determine the suitability of this material for any particular application.