

PRODUCT INFORMATION

TECHDRYAD SUPER

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Manufacturer's code: RPTDADS

Updated by: 22/09/2014

Product Name: TECHDRYAD SUPER

Description: TECHDRYAD SUPER is a water-repellent admixture containing silane/siloxane for concrete masonry with enhanced water-repellent performance.

Recommended Uses: TECHDRYAD SUPER is designed as an admixture for concrete including ready-mix concrete, pre-cast concrete, cement mortar/render or any cementitious products. When this admixture is incorporated into concrete mix, the permeability to water and the occurrence of unsightly efflorescence is significantly reduced. The use of this admixture enhances the intrinsic quality of concrete products by reducing the damage caused by weathering-related water uptake and efflorescence.

Features of TECHDRYAD SUPER include:

- Suitable for a variety of concrete products including wet-cast and dry-mix
- Significantly reduces water absorption and efflorescence.
- Improves concrete workability and external finish
- Permanently bonds to the substrate and cannot be washed out.
- The degree of water resistance can be varied by changing the addition rate.
- Contains no VOC and no hazardous materials.

As masonry materials vary, it is strongly recommended that a pilot trial should be carried out prior to use to determine the suitability of this product for the purpose.

Use Instructions: 1. Dosage

The recommended dosage is about 0.2-0.8 litre of TECHDRYAD SUPER per 1000kg of dry concrete ingredients or 0.4-1.6 litre of the admixture per cubic meter of concrete. However, the addition rate may change significantly depending on the manufacturer's specification. The manufacturer should carry out trials to determine the best suitable dosage for the particular application.

2. Concrete mixing

TECHDRYAD SUPER is recommended to add into the concrete mix as stream or spray at any stage of concrete blending. Enough mixing should be applied to ensure adequate dispersion of admixture into the concrete mix. However, TECHDRYAD SUPER may exhibit an air-entrainment effect for some concrete mix. This may cause unwanted foaming problem within the concrete. The foaming problem may be avoided by adding the admixture at the end stage of concrete blending to avoid extended mixing time after the admixture is added. The foaming problem may also be solved by using a proper concrete defoaming agent.

The best mixing method should be determined by carrying out trials depending on the individual manufacturer's conditions. The admixture should NOT be pre-mixed with water.

2. Concrete curing

Concrete produced with TECHDRYAD SUPER should be covered to prevent water loss during the concrete curing. Due to the immediate surface beading effect formed by the admixture, it is impossible to apply water onto the concrete to help concrete curing. It is important that the concrete needs to be completely cured before exposure to any water or rain. White streaking (initial efflorescence) or discolouring may occur where water has come into contact with the concrete surface if the concrete is not fully cured.

Typical Data:	Appearance:	Clear to opaque blue/greenish liquid
	Active content:	100% by weight
	Specific Gravity:	approx 0.88 g/ml
	pH value:	Not allocated
	Solubility in water:	Insoluble in water
	VOC content:	Nil
	Flash point:	>61°C

Important Note: TECHDRYAD SUPER 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 precipitation. Please make sure the product is in a liquid form when adding into the concrete mix. Do not pre-mix this product with water.

Handling & Storage: TECHDRYAD SUPER is classified as a hazardous and combustible material according to the Criteria of Worksafe Australia. However, as with all chemical products, good industrial hygiene procedures should be followed when using this product. 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.

Packaging: TECHDRYAD SUPER is available in 20, 200 and 1000 litre containers. Other size containers are available on request.

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.