

PRODUCT INFORMATION

TECHDRYAD SUPER

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Manufacturer's code: RPTDADS

Updated by: 01/01/2008

Product Name: TECHDRYAD SUPER

Description: TECHDRYAD SUPER is an environmentally friendly silicone water-repellent admixture 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 or other concrete masonry. When this admixture is incorporated into concrete, 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. With an enhanced formulation TECHDRYAD SUPER provides significant protection against water uptake and efflorescence.

Some of the features of TECHDRYAD SUPER include:

- Suitable for a variety of concretes
- Reduces water absorption and efflorescence up to 80%.
- Improves concrete workability and external finish
- Permanently bonds to the substrate and cannot be washed out.
- Easy to use in any existing processes.
- The degree of water resistance can be varied by changing the rate of addition.
- Contains no VOC, with no hazardous material emitted during use.

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 usual dosage rate is about 0.4-0.8 litre of TECHDRYAD SUPER per 1000kg of dry concrete ingredients or 1-2 litre of the admixture per cubic meter of concrete. However, the addition rate may vary greatly depending on the manufacturer's conditions and the water repellent performance required. The manufacturer should carry out trials to determine the best dosage rate for the particular application.

2. Concrete mixing

TECHDRYAD SUPER should be added slowly as a stream or a spray into the concrete mix while blending. The product may be added to dry concrete ingredients prior to water addition or after water addition providing enough mixing is undertaken to ensure adequate dispersion of admixture in the concrete mix. However, the best mixing procedure should be determined by carrying out trials depending on the type of product produced under the individual manufacturer's conditions. The product should NOT be pre-mixed with water.

TECHDRYAD SUPER may exhibit an air-entrainment effect for some concrete mixes. This air-entraining property may improve concrete mix lubricity or workability resulting in a better external finish and improved durability of the concrete. However, this may cause some unwanted foaming problem within the concrete mix. The foaming problem can be solved by using a proper concrete defoaming agent.

2. Concrete curing

Concrete curing can be processed as usual. However, concrete produced with TECHDRYAD SUPER should be covered during curing. The concrete needs to be completely cured before exposure to water or rain. White streaking 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 non-hazardous 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