

PRODUCT INFORMATION

EMULSION GPE50A

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Manufacturer's code: RPGPE
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Updated:

Product Name: EMULSION GPE50A

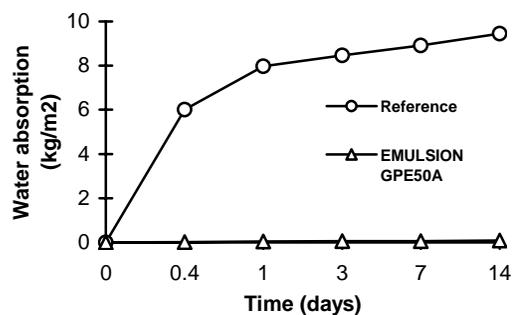
Description: EMULSION GPE50A is a solvent-free aqueous silane/siloxane emulsion concentrate. It is designed to replace general purpose organic solvent-based silane/siloxane masonry water repellent. The silane/siloxane can react with masonry substrates providing permanent water repellency to the masonry.

Recommended Uses: As impregnation of masonry:

When diluted with water, EMULSION GPE50A is recommended for the water repellent treatment of masonry substrates including concrete, cement mortar and renders, clay bricks, terra cotta tiles and natural stone masonry.

Figure 1 shows long term water absorption results for clay brick treated with 5% GPE50A emulsion. The water absorption of the treated brick compared to that of the reference was significantly reduced.

Figure 1. Water Absorption of Treated Brick

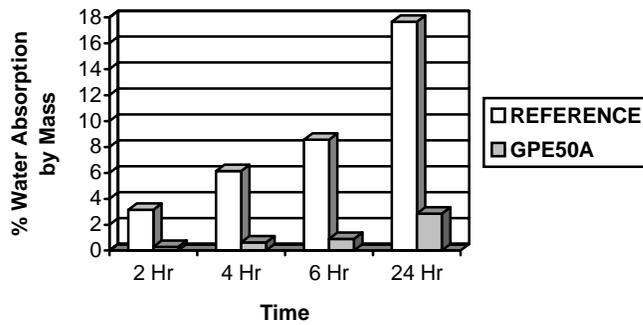


As an admixture in acrylic primers:

EMULSION GPE50A can be added to acrylic primers to produce products that are film-forming impregnants. Such products possess both film forming and penetrating properties. The result is a coating combination with a very low water absorption. Acrylic primers containing EMULSION GPE50A form superior substrates for subsequent over coating. The low water absorption of the primer coat reduces water ingress through imperfections or damage in the topcoat; the result is a more durable coating system.

The water absorption test results show that acrylic primer with addition of 6% EMULSION GPE50A provides 85% reduction in water absorption compared to that of the reference of standard cement render as shown in Figure 2.

Figure 1. Water absorption of cement render coated with acrylic primer containing Emulsion GPE50A



Use Instructions: As masonry water repellent

A working solution of EMULSION GPE50A can be prepared by diluting the concentrated EMULSION GPE50A as supplied with demineralised water to a solids content of 5-8%. Please stir EMULSION GPE50A before dilution. Such a dilute solution should be stable for at least 6 months.

The above solution can be applied to masonry surfaces by brush, roller or sprayer. A garden sprayer or low pressure airless spray equipment may be used. Two applications wet-in-wet are recommended. Always stir the container before use.

As an admixture in acrylic primers

An acrylic primer can be prepared according to the following formula.

Duramol D641 (acrylic emulsion from Rhodia):	300kg
Texinol (Coalescing agent)	18kg
EMULSION GPE50A:	60kg
Water:	640kg

Duramol D641 is added to deionised water with stirring followed by coalescing agent and other additives such as defoamer and biocide. Emulsion GPE50A is then added into the above mixture with stirring. Please stir EMULSION GPE50A before addition.

Typical Data:	Appearance:	Milky white liquid with slight odour
	Solids content:	50% by weight
	Specific gravity:	0.98
	pH value:	7-9
	Solubility in water:	Miscible
	Flash point:	>100°C

Important Note: As products and the conditions of use vary, it is always recommended that a pilot trial should be carried out prior to using EMULSION GPE50A to determine the suitability of this product for the purpose.

Handling & Storage: EMULSION GPE50A 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 sources. The product has a shelf life of 12 months in a sealed container stored at a temperature below 25°C.

Packaging: EMULSION GPE50A is available in 20 and 200 plastic drums or a 1,000 litre plastic bulky bin. Other size containers may be 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.