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# Expoz

Set retarder for use on concrete surfaces

## USES

Expoz is a liquid applied material to retard the setting of cement paste on the surface of concrete. This allows the removal of the surface paste to reveal the aggregate in the concrete. Exposed aggregate finishes are commonly used for replacement of open graded asphalt on concrete roads, improved drainage and skid resistance, and a decorative finish.

## BENEFITS

- Economical means of exposing aggregate
- Reduced maintenance cost of concrete road when compared with asphalt
- Ready to use straight from the drum
- Improved skid resistance when compared to plain concrete
- Water based product, clean and easy to use

## DESCRIPTION

Expoz is supplied as a ready to use liquid. The application of Expoz to the surface of freshly placed concrete results in set retarded layer which can be removed once the concrete beneath has firmed. The ease of application makes it simple to apply in an even coat to the concrete surface.

## TYPICAL PROPERTIES

**Specific Gravity @20°C: 1.050 ± 0.010**

## APPLICATION

Allow the concrete to firm after it has been placed and compacted to prevent the application of the Expoz from damaging the trowelled surface.

Stir the product before use. Apply an even coating by brush or spray directly onto the surface of the

concrete immediately the concrete has firmed, but before the initial set has taken place.

The depth of reveal can be varied to suit the size of the aggregate in the mix by altering the application rate of the Expoz. To achieve a normal reveal on aggregate up to 20mm, use at a rate of 5 m<sup>2</sup> per litre.

It is always advisable to carry out tests to determine the optimum application rate under site conditions prior to commencing full scale application of this product.

Treated concrete surfaces should be allowed to cure for up to 24 hours before hosing with water and brushing to remove the retarded cement paste.

After exposure the concrete should be cured using an curing compound complying with AS 3799.

If delays of longer than 24 hours are experienced between the application of the Expoz and the removal of the cement paste, the concrete surface will begin to harden and an even reveal of the aggregate will be difficult to achieve.

## CURING

After exposure the concrete should be cured using a curing compound which complies with AS 3799, such as Pavecure A from Aitken Freeman.

## CLEANING

Expoz should be removed from tools and equipment immediately after completion using clean water.

Residual material left in spray equipment should not be put back into the original container for re-use.

## ESTIMATING & SUPPLY

Expoz is supplied in 20 litre poly drums. Coverage is around 5m<sup>2</sup> in most applications, however site trials should always be undertaken to determine the appropriate application rate for each job.

## STORAGE

Expoz has a shelf life of 12 months if kept in dry store in original unopened containers. If stored in high temperatures, the shelf life may be significantly reduced.

## PRECAUTIONS

(a) Approval Test. Always conduct a site trial under the actual site conditions prior to commencing full production. This is particularly important for applications in direct sun and/or subject to drying wind.

(b) Application. The uniformity of any exposed surface is dependent on the uniform application of the retarder. Over-application will result in excessive depth of etch, while insufficient retarder may produce too little exposed aggregate or make exposure more time consuming.

(c) Expoz is a set retarder but does not stop the cement paste from setting with time. Any delays in exposing the aggregate will decrease the depth of etch and increase the difficulty of removing the cement paste.

(d) Proper curing of the surface is essential for maximum strength development after removal of the retarded mortar.

(e) Hot and/or windy site conditions will accelerate the setting time of the concrete surface and decrease the time from application of the retarder till removal of the cement paste.

(f) Do not pour unused material back into the original container. Keep well sealed and reuse as soon as possible. Fill spray equipment with sufficient product to complete the work at hand, to avoid wastage.

**Material Safety Data Sheets (MSDS) are available to users of Aitken Freeman products on request. Please ensure you have read this data sheet, the MSDS, and the product label carefully before first use of any product.**

## TECHNICAL SUPPORT

Aitken Freeman offers a comprehensive range of high quality, high performance construction products. In addition, Aitken Freeman offers technical support to users and specifiers, and can arrange on-site visits to end users and contractors.

## ALLIED PRODUCTS

Aitken Freeman manufactures a broad range of construction products and can supply the following:

- Grouts and anchoring systems
- Epoxy Surface Coatings
- Admixtures for concrete
- Adhesives & Sealants
- Floor toppings
- Floor levelling compounds
- Concrete Repair materials
- Waterproofing solutions

***Refer to Material Safety Data Sheet for precautions and personal protection***

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