



Preco Hydrotard

Water based surface retarder concrete

Uses

Surface retarder for producing exposed aggregate concrete finish in face-down and face-up concrete manufacture.

Description

Preco Hydrotard is a chemical retarder directly applied to the formwork. They are designed to provide a simple economical method of exposing aggregates in freshly poured face-down pre-cast concrete or face-up panels or slabs. The action of these products is to retard the hydration of cement at the surface matrix of the concrete.

Advantages

- Non-toxic and non-flammable.
- Simply applied, straight from the container.
- Do not need to use a mould release agent.
- Good results with heat curing and high temperature concreting.
- Suitable for large units where heat of hydration is high.
- Three etch depths are available.
- May be used on steel, concrete, glass fibre or timber formwork.
- Locally manufactured for Middle East use.
- Economical in application.

Depth of exposure

Preco Hydrotard is available in three etch depths. The material in every pail is colour coded to show the particular depth of exposure.

Lilac light etch	-	1 - 2 mm
Green medium etch	-	2 - 4 mm
Brown deep etch	-	4 - 6 mm

The above is a guide based on Grade 30 concrete, medium workability, 20 mm maximum size aggregate.

Instructions for use

Timber formwork should be sealed with Reebol Formcote. Formwork and moulds must be clean and dry before application.

Preco Hydrotard should be applied in one even coat using a brush or roller. Coverage rate is 5 - 8 m² per litre.

It is possible to spray Preco Hydrotard but would need to dilute with 5 - 10% water to achieve sprayable consistency. Stir well before use.

Before concrete is placed, the surface retarder should be dry for face-down application. This typically takes 15 to 60 minutes depending on ambient conditions whereas in the case of face-up, Preco Hydrotard should be applied immediately after placement of concrete is complete in wet conditions.

Immediately after the concrete moulds are stripped, the retarded surface of the concrete can be exposed either by brushing and/or water washing. Water washing should be carried out using a high pressure water jet at between 1000 and 2000 psi (5 to 10 N/mm²). Dry brushing requires the use of a wire brush.

To bring out the full colour of the aggregate for decorative finishes, wash the concrete face with a dilute solution of Fosroc Acid Etch.

Cleaning

Clean all tools and equipment with water immediately after use.

Packing

	Packaging	Coverage
Preco Hydrotard:	25 litre pails	5 - 8 m ² per litre

Storage

Shelf life 12 months under normal warehouse storage conditions. Preco Hydrotard should be protected from frost. If the material becomes frozen, it should be completely thawed and then thoroughly mixed before use.

Precautions

Health and safety

Preco Hydrotard is essentially non-toxic unless ingested in large quantities.

Skin and eye contamination - May be removed by washing with water. If eye contact is severe or significant ingestion occurs medical advice should be sought.

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Fire

Preco Hydrotard is non-flammable.

Supply

Contract your local Fosam office or representative.

Technical service

Fosam provides a technical advisory service locally, supported by specialists in the field.

Additional information

Other related products are Preco Heatcoate retarder for steam / heat curing. Preco Mould Release QD quick dry release for retarders.

Reebol chemical formwork release agent. Reebol Formcote polyurethane shutter paint. Fosroc Solvent 106 for cleaning formwork and application equipment.



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