

Surface revealing liquid for exposed aggregate finish on fresh concrete

Uses

Preco RWB is used to reveal aggregate in freshly placed horizontal concrete by delaying the surface set so that the mortar paste may be brushed and washed from between the aggregate particles, after the mass of the concrete has set. This produces an attractive exposed aggregate finish, or a key for subsequent pours or renders, e.g. floors, precast walls and slabs, paving, etc.

Advantages

- Preco RWB provides uniform and controlled depth of retardation.
- Preco RWB treated surfaces are normally readily revealed and cleaned by careful jet hosing or stiff brooming
- Surfaces treated with Preco RWB provide an excellent key for bonding subsequent renders or concrete, without the need for hacking, or mechanical scabbling
- Depth of reveal for various sized aggregate can be readily controlled
- Economical and simple method of horizontal concrete surface revealing
- Flexible time factor - up to 24 hours under normal application usage
- Less labour time necessary to obtain required face up finishes

Description

Preco RWB is a water based retarder for concrete surfaces, which is ready for use on freshly laid concrete to reveal the aggregate content of the mix.

It is based on polyoxycarboxylates and other agents which combine to retard the set of the cement matrix on the surface of concrete to a depth of between 3mm and 6mm, depending upon the thickness and concentration of the application, and the design of the concrete mix.

Preco RWB is a stable water based solution and the active ingredients will remain in dispersion under sealed conditions. It must not be mixed with any solvent or liquid except clean water.

Properties

Specific gravity: approximately 1.05 at 25°C

Application Instructions

Application

Allow the concrete to "firm" after it has been placed and compacted, to prevent the application of Preco RWB from marking trowelled surfaces. Stir the product before use Apply in an even coating by brush or apply (knapsack or stirrup pump) directly onto the exposed upper surface of the concrete immediately the mix 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 thickness of the coat of Preco RWB applied. To achieve a normal reveal on aggregate up to 20 mm, use at a rate of approximately 1 litre to 4m² of surface area. For aggregate between 6mm and 9mm, dilute Preco RWB with between 1/2 to 1 equal volumes of water according to the reveal required. It is always advisable to carry out tests to determine the optimum application rate prior to full scale production commencing.

Treated concrete surfaces must be protected from direct sunlight or warm draughts which may cause the surface to dry out rapidly. The concrete should be allowed to cure for up to 24 hours (less in elevated ambient temperatures) before hosing with water and brushing to remove the unset cement matrix. The concrete should be cured in a normal manner but if a delay of longer than 24 hours is unavoidable, or in the case of elevated temperatures, the concrete should be covered with polythene sheet.

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

Select aggregate sizings and gap gradings to suit end result desired. See under Limitations.

Cleaning

Preco RWB can be cleaned from tools and equipment with water .

Limitations

Approval test - always pre test on a small section to determine the thickness or concentration of Preco RWB to give the reveal required. This is particularly important with finer aggregates such as 6mm and 9mm and with concretes with accelerated set additives such as calcium chloride, heated or steam cured concretes, etc.

The application of excessive quantities of Preco RWB will result in a very deep reveal, and the displacement of aggregate during hosing and brushing. As a consequence of this, the surface texture of the concrete will be uneven.

Preco RWB delays the set but does not prevent setting on exposure unless excessive quantities are used or added directly to the concrete.

Proper curing of exposed aggregate surface is essential for maximum strength development.

Fosroc®

Preco® RWB

In order to achieve a uniform exposed aggregate surface, it is essential that the concrete is well designed, typically a gap graded mix with 60% - 65% of coarse aggregate; a w/c ratio of approximately 0.4 (with a slump of between 25mm and 40mm); and 4% to 5% entrained air to impart workability. The cement content should be 335kg per cubic metre of concrete.

Supply

Fosroc Preco RWB 20 litre:	FD756085-20L
Fosroc Preco RWB 200 litre (MTO):	FD756085-200L

Coverage

20mm aggregate	approx. 4m ² / litre
6mm to 9mm aggregate	approx. 4m ² / litre after dilution up to 50% with water

Coverage rate is dependent on the aggregate size and depth of exposure required.

Storage

Preco RWB should be kept in a dry store in the original, unopened packaging.

Protect from extremes of temperature. Store between 2°C and 50°C.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.