

TECHNICAL DATA SHEET

# SURFACE RETARDER

## Water based concrete surface retarder

### DESCRIPTION

Surface Retarder is a concrete surface retarder that is recommended for use on concrete with strengths up to 20 MPa. When applied to the surface of freshly poured concrete it delays the normal hydration of cement for a depth of 3-6mm whilst the underlying concrete hardens normally. RB7.16 is widely used throughout New Zealand by concrete placers to achieve a consistent exposed aggregate finish on driveways and paths.





## USES

- Used in the construction of decorative exposed aggregate driveways, paths etc.
- To produce a uniform depth of exposed aggregate finishes to in-situ and precast concrete.
- Provides an economical surface preparation to concrete that will be overlaid with plaster screed.
- It is also used to form a mechanical key at construction joints, eliminating the need for expensive and damaging scabbling.
- For concrete over 20 MPa and in hot weather use Surface-Retarder Plus (7.17)

## MIXING INSTRUCTIONS

Surface Retarder is supplied ready to use from containers without site mixing and should not be diluted.

## PACKAGING

Surface Retarder is available in 20 Litre, 200 Litre and 1000 litre options.

## APPLICATION PROCEDURE

Apply RB7.16 Surface Retarder after the concrete has been mixed, placed, compacted, screeded and lightly trowelled to an even finish and the initial bleed water has disappeared from the concrete surface, and before setting has commenced, Surface Retarder should be applied to the surface by spray or brush at a coverage rate of no less than 3-5m<sup>2</sup>/Litre.

## REMOVAL

RB7.16 Surface Retarder will slow down the set of the concrete surface. The time of retardation varies depending on the weather, the time of day the concrete is poured, and the slump of the concrete pour. It is recommended that in very hot sunny weather, concrete with 120 slump be used, in colder weather 80 slump and at average temperatures 100 slump. In very hot sunny weather it is recommended that the concrete be poured late afternoon and the retarded concrete removed in the first half of the next morning.

If in hot sunny weather the concrete is poured in the morning it is most likely the retarded concrete will have to be removed later in the afternoon the same day. In normal average temperatures the time will be between 12 and 24 hours and longer in cooler temperatures. The retarded concrete can be removed with a low-pressure hose or brush to reveal a good, clean exposed aggregate finish. For larger contracts we recommend trial be carried out first and do not take a longer time between pouring of the concrete and washing the treated surface, than trials have indicated will achieve the desired result.

## HEALTH AND SAFETY

RB7.16 Surface Retarder is quite harmless, provided normal precautions are taken when handling chemicals. Avoid contact with foodstuffs and utensils. Avoid prolonged skin contact. Wear protective clothing, gloves, goggles etc. In the event of contamination wash thoroughly with water. If the eyes or mouth are affected wash with clean water and obtain medical attention.

## TECHNICAL DATA

|                                |   |
|--------------------------------|---|
| <b>COLOUR:</b>                 | Red                                       |
| <b>SPECIFIC GRAVITY:</b>       | 1.05-1.06 kg/Litre                        |
| <b>FLASH POINT:</b>            | Non-Flammable                             |
| <b>TOXICITY:</b>               | Non-Toxic                                 |
| <b>DG CLASSIFICATION:</b>      | Non-Hazardous                             |
| <b>SHELF LIFE:</b>             | Unlimited in sealed container as supplied |
| <b>COVERAGE RATE:</b>          | 3-5 m <sup>2</sup> /Litre                 |
| <b>APPLICATION PROCEDURES:</b> | 5degC - 30degC                            |

## TECHNICAL INFORMATION

Should you have any queries, or require further information, please contact our **Technical Sales Team: +64 4 568 5401**

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