

TECHNICAL DATA SHEET

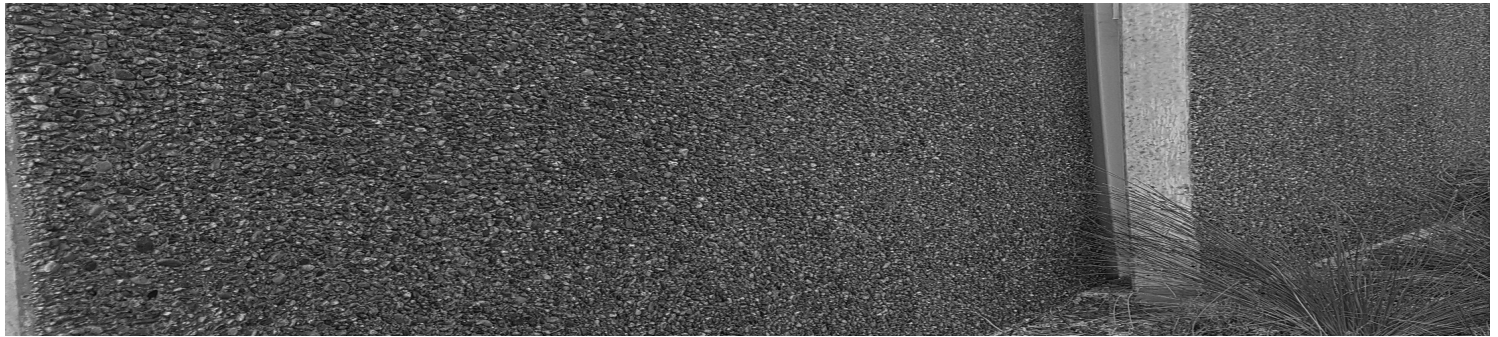
SURFACE RETARDER-PLUS

Water based concrete surface retarder for 20-40MPa concrete

DESCRIPTION

Surface Retarder Plus (RB7.17) is a concrete surface retarder and recommended to be used on concrete with strengths between 20 and 40 MPa and on concrete under 20MPa in hot weather. When applied to the surface of freshly poured concrete it delays the normal hydration of cement for a depth of 3-6mm (and occasionally deeper), whilst the underlying concrete hardens normally. Surface Retarder -Plus is supplied ready to use from containers without site mixing and should not be diluted.





USES

- Used in the construction of decorative exposed aggregate driveways, paths etc.
- To produce a uniform depth exposed aggregate finishes to in-situ and precast concrete.
- Provides an economical surface preparation to concrete that be overlaid with a plaster screed.
- It is also used to form a mechanical key at construction joints, eliminating the need for expensive and damaging scabbing (20-40 MPa concrete)

MIXING INSTRUCTIONS

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

PACKAGING

Surface Retarder Plus - Extra is available in 20 Litre and 200 litre non-refundable containers and 1000Litre refundable pods.

APPLICATION PROCEDURE

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 Plus should be applied to the surface by spray or brush at a rate of 3-5m²/Litre.

REMOVAL OF RETARDER

Surface Retarder Plus 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 of the same day.

In normal average temperatures the time will be between 12 and 24 hours and longer if cooler temperatures. The retarded concrete can be removed by a low-pressure hose or brush to reveal a good, clean exposed aggregate finish. For larger contracts we recommend trials be carried out, and do not take a longer time between pouring of the concrete and washing and brushing the treated surface than trials have indicated will achieve the desired result.

IMPORTANT NOTES

Do not leave the retarder on longer than the time stated. If this happens, the concrete will set and the retarder will cease to be adequate.

If using a waterblaster be extremely careful not to apply too much water pressure to the concrete surface so that it dislodges the exposed aggregate.

Do not use any accelerated admixtures in the concrete when using Surface Retarder-Plus.

HEALTH AND SAFETY

RB7.17 Surface Retarder-Plus is generally 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

COLOUR: Blue/Green

SPECIFIC GRAVITY: Approx 1.10kg/Litre

FLASH POINT: Non-Flammable

TOXICITY: Non-Toxic

DG CLASSIFICATION: Non- Hazardous

SHELF LIFE: Unlimited in sealed container as supplied

COVERAGE RATE: 3-5 m²/Litre

APPLICATION TEMPERATURES: 10C-30C

TECHNICAL INFORMATION

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