

TECHNICAL DATA SHEET

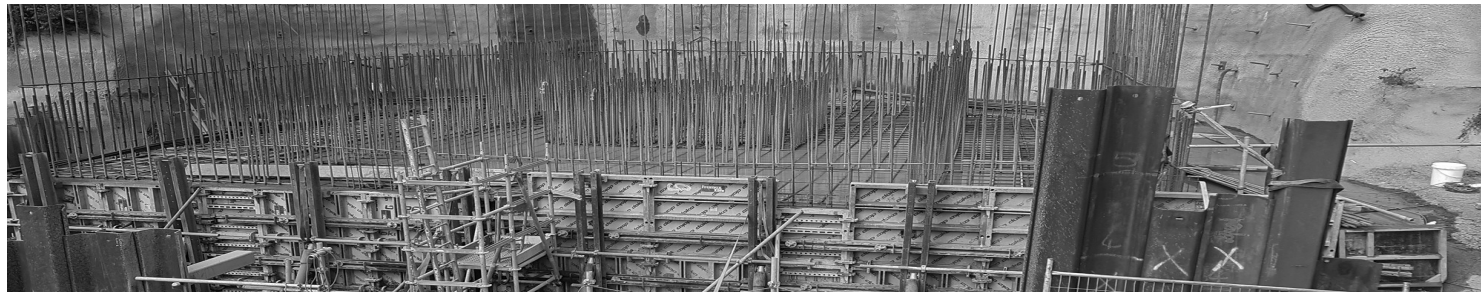
# SURFACE RETARDER-PLUS EXTRA

Water based concrete surface retarder for concrete over 40MPa

## DESCRIPTION

Surface Retarder -Plus Extra (RB7.17EX) is a concrete surface retarder recommended to be used on concrete with strengths of over 40 MPa. Ideal for use in the forming of construction joints in high strength concrete in both precast and civil construction. 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 underlaying concrete hardens normally.





## USES

- Used in civil and commercial construction to produce mechanical joints in concrete over 40MPa
- Used in the precast industry to produce cold joints in high strength concrete components.
- By forming a mechanical key at construction joints, the need for expensive and damaging scabbing is eliminated
- 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
- Used in the construction of decorative exposed aggregate driveways etc where more time is needed between application and removal.

## 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 containers 200 litre drums and 1000Litre IBC's.

## 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 -Extra should be applied to the surface by spray or brush at a rate of 3-5m<sup>2</sup>/Litre.

## REMOVAL

Surface Retarder-Plus Extra 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 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 Retarders Plus - Extra.

## HEALTH AND SAFETY

RB 7.17Ex Surface Retarder-Plus Extra 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:** Lime

**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 m<sup>2</sup>/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**