



# CONCRETE RETARD COAT FOR HORIZONTAL SURFACES

**DESCRIPTION:**

Concrete Retard Coat For Horizontal Surfaces is a waterbased solution which is applied directly to a freshly placed concrete flatwork surface to retard the set of the surface cement to obtain an exposed aggregate surface.

**USES:**

Concrete Retard Coat For Horizontal Surfaces is a liquid that when sprayed on fresh soft concrete will retard the cement and expose the aggregate to produce a three dimensional surface. Concrete Retard Coat will retard the set of the surface cement between 12 to 24 hours after application and when applied as directed. The amount of retardation will be influenced by the concrete setting time which, in turn, is influenced by air temperature, concrete temperature, mix design, slump, wind and humidity. Concrete Retard Coat will only retard the surface cement and will not retard or "kill" the set of the mix.

**LIMITATIONS:**

Concrete Retard Coat For Horizontal Surfaces may only be applied to concrete flatwork. Do not apply to vertical formwork, instead use Concrete Retard Coat For Vertical Surfaces. Concrete Retard Coat is to be applied to fresh concrete surfaces only. Do not apply when rain is anticipated within 12 hours of application, when surface temperature is below 0°C, or when air temperature is above 25°C.

Using the mix design, prepare a test batch of concrete, lay the concrete and apply Concrete Retard Coat. It is recommended that in all applications that a test be conducted. It is also recommended that the work on exposed surfaces is always started as early as possible and that the applicator remain with the surface until Concrete Retard Coat is removed. If very small aggregate is used, it is important not to start the wash off too early to avoid creating bare spots. It is recommended that for concrete mixes that are going to be treated with Concrete Retard Coat, the mix design should be enriched with 20 percent more rock.

**TECHNICAL DATA:****Typical Properties**

Colour	Light Blue Liquid
Weight	2.17 pounds per Litre
Viscosity	Sprayable
Freezing Point	0°C
Boiling Point	100°C

**INSTALLATION INSTRUCTIONS:**

Place the concrete (It is recommended that the mix design is enriched with 20% more stone than the standard mix). Mag float the surface to cover all stones.

**DIRECTIONS:**

Stir Concrete Retard Coat before application. Product may settle during storage. After concrete finishing is complete, apply Concrete Retard Coat just as the surface water disappears. Apply at the specified application rate by using a brush, roller or low pressure sprayer. Protect the treated surface from wind, rain or high overhead sun. Re-apply Concrete Retard Coat to any sloping surface where run off may have occurred. When concrete's compressive strength reaches 7MPa (1000 psi) (between 12 to 24 hours), begin to expose the surface. Using a water broom or a stiff broom and hose, start washing down the surface to remove the Concrete Retard Coat. DO NOT leave material on the concrete indefinitely. As the amount of retardation desired is a personal preference, and timing of retardation is subject to many variables, it is recommended that the applicator stay with the surface and remove the Concrete Retard Coat at the exposure relief required or specified.

**RATE OF APPLICATION:**

Apply Concrete Retard Coat For Horizontal Surfaces as follows:

Surface Profile	Rate of Application
Average Retardation	3.7 m <sup>2</sup> /L (160 ft <sup>2</sup> /4 L)
Deep Retardation	2.5 m <sup>2</sup> /L (100 ft <sup>2</sup> /4 L)

**CLEAN UP:**

Clean tools and equipment with water. Clean hands and skin with soap and water.

**PACKAGING:**

Concrete Retard Coat is packaged in 4 Litre and 20 Litre containers.

**FIRST AID:**

Keep away from eyes. Use goggles during application. If in contact with eyes, flush with water immediately for 10 minutes. Call a physician. Avoid prolonged contact with skin. Use protective clothing and gloves. Wash hands thoroughly after using or before smoking or eating. If large amounts swallowed call physician immediately. Keep out of reach of children. See Safety Data Sheet for more information.

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