



1.11 XPERT SURFACE SET

High Performance Surface Retarder

PRODUCT DESCRIPTION

XPERT Surface-Set is a solution of concrete retarding chemicals and conditioners. Applied to fresh concrete, it inhibits the setting of the very top surface layer of concrete while the remainder of the concrete cures normally. After the concrete sets, the top mortar level is removed with high-pressure water to reveal beautifully textured, exposed aggregate surfaces. Concrete washing with high pressure water should normally take place within 8 to 24 hours. Used on the upper surface of horizontal cast-in place concrete, XPERT Surface-Set adds a decorative, rough textured, non-slip surface to patios, sidewalks, ramps, pool aprons and steps. When used on precast or tilt-up, XPERT Surface-Set brings rugged, natural elegance to panels, walls or other architectural pieces.

BENEFITS

- Allows the removal of the top layer of freshly placed concrete to reveal the natural colors of the various aggregates.
- Easily exposes aggregate.
- Free of VOCs (volatile organic compounds).
- Applicable without risk for the environment.
- Easily biodegradable.
- Economical procedure.

APPLICATION

Apply by brush, roller or sprayer on fresh, finished concrete to inhibit the setting of a selected surface layer of concrete while the remainder of the concrete cures normally. The top mortar level should be removed within 8 to 24 hours with high pressure water. The concrete itself is a significant participant in the process. The characteristics of the concrete mix will affect the depth of the etch. Concrete must be carefully mixed and finished. The depth of etch is influenced by the set time of the concrete. Important factors include:

- **Type of cement:** Type I and II cements set slower than Type III cement, so retarders used with Type I and II cements are likely to produce a deeper etch.
- **Slump:** Depth of etch will be reduced with stiff mixes that set faster than fluid mixes.
- **Water/cement ratio:** Use a workable mix that will not segregate. Segregation adversely affects the appearance of the retarded surfaces. Do not vary the ratio at any time during the project.

COVERAGE

Minimal coverage rate is 1 - 2 oz. per sq.ft. (300 - 600 ml per m²). Coverage will vary depending on the concrete mix and aggregate size.

DIRECTIONS

Test Patch: To ensure that XPERT Surface-Set performs as desired, a trial section is required. This section must be prepared duplicating all job conditions, including work crew, thickness and mix design. The sample area should be at least 2 sq. ft. (0.2 m²). The trial section should be approved prior to continuing the project.

Temperature: XPERT Surface-Set may be used within normal concrete temperature ranges. However, extreme temperatures will affect setting times and the retardation of the concrete surface.

Surface Retarding: Once the concrete has been screeded and surface water disappears, immediately apply XPERT Surface-Set Thoroughly mix before applying by brush, roller or sprayer. Apply uniformly leaving no gaps. Product is supplied ready to use, do not dilute.

Exposing the Aggregate: The surface material should be removed within 8 to 24 hours when the base concrete has hardened sufficiently. Test a small area to see if the panel or slab has hardened adequately before removing the surface layer. If the depth of the retarded mortar is greater than desired, allow the panel or slab to cure a little longer before exposing the aggregate to the desired depth. The

SPECIAL NOTES

Do not cover concrete with a polyethylene sheet. Covering will affect the ability of the product to retard the surface. Nevertheless, in case of heavy rain, it is necessary to protect the surface.

PACKAGING

XPERT Surface Set is supplied in 55-gallon (210L) drums, 275-gallon (1000L) totes or Bulk delivery.

VALUE

XPERT Anti-Freeze 1150 provides the greatest value in a non-chloride accelerator when comparing rate-of-set acceleration, strength gain, and treated cost of concrete. Also, compare the performance and value of XPERT's high quality fast admixture when producing high performance concrete.