

Notes

V.O.C. Compliant Joint Profiling Surface Retarders

Vertical and Horizontal Construction Joint Applications

Generally, specifying chemical retarders on cast-in-place concrete applications there should be references to both the formwork as well as the use and proper application of the retarder specified along with the placing and finishing operations in the concrete sections. Such is not necessary for proper use on vertical and or horizontal construction joints for In-Situ (C-I-P) Structural Concrete placements.

- Normally, any delay in the removal of the chemically retarded cement matrix after the formwork has been removed will lead to potential inconsistencies. This will not be of any real concern since the object here is to roughen the surface for better bond adhesion for subsequent pours without hard sandblasting generally.
- For questions consult the ACC Technical Service Staff.

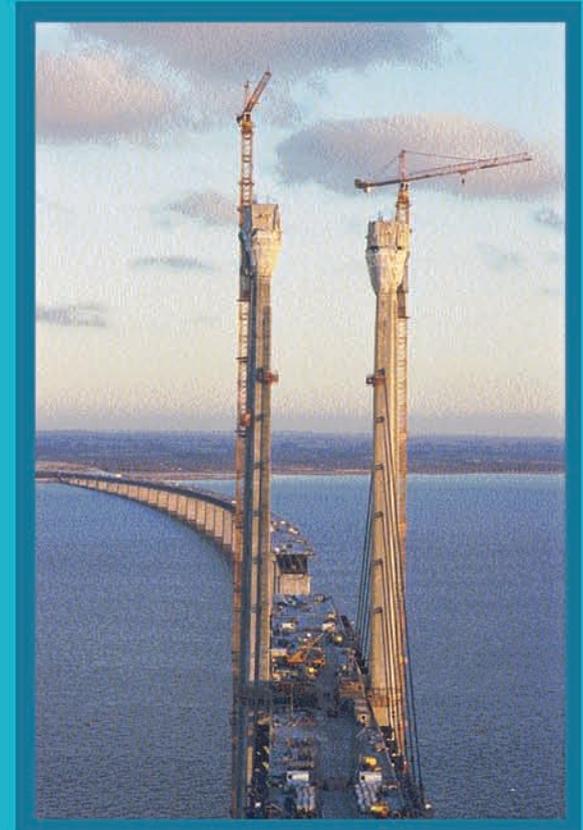
Joint Profilers for both Vertical (VJP) and Horizontal (HJP) Applications

ACC Joint Profilers for Vertical and Horizontal Construction Joints are all V.O.C. Compliant with <25 g/l

This includes the SCAQMD, LADCO, CARB, OTC and all EPA Regulations

ACC Joint Profilers VJP and HJP are available in two standard formulations Medium # (125) and Deep # (250) packaged in both 5 and 55 gallon containers.

ACC Construction Joint Profilers



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I. Formwork (Preparations)

All concrete form materials should be free of all oils, chemical residues, greases and other materials that may interfere with the adherence of the painted retarder film to the form surface.



1. Clean all previously used formwork using mineral spirits, acetone or denatured alcohol prior to the application of the form retarder. This step will help the process but is not absolutely required.

2. All timber, plywood and other wood surfaces to be used in the treated areas should be properly sealed prior to any application of the form retarder. This will aid in form clean-up and reduce possible absorption of the retarders.

(ACC recommends the use of steel formwork, fiberglass coated plywood sections, high density overlaid plywood or AC Grade plywood with a minimum of 2-3 coats of ACC Form Seal WB, a high performance moisture cured urethane. Always make sure to allow for sufficient time for the sealer to properly cure prior to putting form sections into service.

II. Application Vertical Joint Profiler



A. After the proper cleaning and sealing of the formwork to be used (when necessary), apply two coats of ACC Construction Joint Profiler by brush, roller or by airless sprayer at a rate of 150 - 300 sq.ft./gallon, (5-7 mils a hiding coat.) Always mix Joint Profiler Retarders by pouring the complete contents between two clean and empty pails or using a jiffler type mixer and drill prior to each use, making sure any ingredients settled on the bottom are properly dispersed prior to use. Do not use any form release agents prior to the use of Construction Joint Profiling Retarder; this will affect the adherence of the film to the formwork during concrete placement. **{This is particularly important when there will be a time lag (days) before application and concrete placement. }**

III. Concrete: General Placing and Finishing

A. In general, the concrete mix design will have higher strength for structural purposes. It is important to propose uniform placement standards and procedures for best results.

1. The concrete slump should be kept at a workable flow rate unless you are employing a self-consolidating concrete to eliminate the need for vibration or at least significantly reduce it during wall placements helping to aid in reduction of potential segregation.

2. When placing sections over 6 ft. a tremie or elephant trunk should be used during placement to reduce the potential of mix segregation not necessary when using high flow mixes using viscosity modifying admixtures.

3. Care must be taken to keep the stinger head to the backside of the reinforcement steel away from the surfaces and the face of the vertical joints to be treated with the surface retarder. This will limit the potential damage to the chemically activated form surface. Vibrate generally on 12-16" centers vertically for the best results.

When creating horizontal construction joints, it is after placement and vibration when the initial bleed water has dissipated. The ACC Horizontal Joint Profiler is applied at a rate of 150 – 300 Sq.Ft./Gal. depending on which product is used.



4. After the concrete has reached sufficient strength, the forms are removed. The treated retarder matrix should be removed within 72 hours for proper control of the matrix being removed. Generally with high-pressure water using 1,500-2,000 psi at a rate of 4-6 gallons per minute flow yielding 500-600 sq.ft. / Hour. When employing sand either dry or wet it is important not to damage any coatings that may be used on the reinforcement. Most times water is best suited for removal.

