

THINSET, PLASTER & STUCCO OVER XYPEX COATING

Xypex Procedures for Application of Thinset, Plaster, Stucco, Cement Parges, etc. onto Xypex Coatings

2021-08-24

The following is an expansion of the section “Application of Grout, Cement Parge Coat, Plaster or Stucco” that is found in our Concrete Coating Installation and Procedures General Information method statement. The Concrete Coatings Installation and Procedures method statement discusses only installation of materials onto Xypex coatings within 48 hours of their installation. This document discusses these procedures as well as installation onto Xypex coatings after the initial 48 hour period has passed.

Application of Xypex Coating

When over coating Xypex coatings with a cementitious based material it is recommended that only a single coat of Xypex Concentrate at 2 lb/sq.yd. (1 kg/m²) be applied. Xypex coating materials are to be applied to the concrete substrate surface in accordance with Xypex published literature. Between the time of application of the Xypex coatings and their covering with additional materials, the Xypex coatings are to be cured, again, in accordance with the standard published procedures.

Application of Thinset, Grout, Cement Parge Coats, Plaster or Stucco

There are two alternatives for the application of additional cementitious materials systems over Xypex Concentrate or Xypex Concentrate/Modified.

Early Installation Option: After Xypex Concentrate has completely set but while it is still “green” (12 to 48 hours - the 12 - 24 hour window is considered ideal), thinset, mortar, plaster, etc. may be applied directly to the Xypex Concentrate coating.

Mortars should contain an acrylic polymer to assist in bonding to the Xypex Concentrate coating. During the time between installation of the Xypex Concentrate onto the substrate and the application of the thinset or pool plaster the Xypex coating must be kept “green looking” using curing methods per Xypex’s standard published procedures. The brush or spray applied finish of the Xypex coating is often an acceptable profile for subsequently applied materials but this must be confirmed with the over coating material’s manufacturer. Maintenance of the Xypex coating in an SSD condition (or not) during application of other cementitious materials should be confirmed with those products’ manufacturers.

Standard Installation Option: After the 2 - 3 day curing period allow Xypex Concentrate to remain on the substrate undisturbed for 21 days. After that time, one of the following methods should be used to prepare the surface for application of the thinset, mortar or plaster:

BEST – Completely remove the Xypex Concentrate coating by sand blasting, wet blasting or water jetting. 5,000 psi (350 bar) is normally acceptable to achieve full removal

of the Xypex coating. Additional cleaning of the substrate shall be done such that it is left clean of dust or any other residue. The surface profile and other properties of the substrate shall be as required by the over coating material’s manufacturer. After 21 days there has been sufficient chemical transfer of Xypex active ingredients into the substrate concrete that removal of the coating will not adversely affect the performance of the Xypex waterproofing.

BETTER – High pressure wash the Xypex Concentrate coating with 3,000 - 3,500 psi (200 - 350 bar) water to remove as much Xypex Concentrate coating as will easily come off with this level of pressure washing. Then wash any remaining Xypex Concentrate coating with a 3% - 5% acid solution to open the pores of the coating and remove any surface crystallization. Thoroughly flush off any acid residue from treated surfaces. Confirm the surface is acceptable to the over coating material’s manufacturer.

ACCEPTABLE – Acid wash the Xypex Concentrate coating with a 3% - 5% acid solution to open the pores of the coating and remove any surface crystallization that may have formed. Thoroughly flush off any remaining acid or residue from treated surfaces.

In this scenario the surface preparation of the substrate prior to application of the Xypex Concentrate is critical. The bond of the Xypex Concentrate to the substrate is not being tested by pressure washing and the adhesion of the entire system is dependent on the bond of the Concentrate layer to the substrate. Confirmation of the acceptability of the Xypex coating surface to the over coating material’s manufacturer is recommended.

Xypex accepts no responsibility regarding bond between the Xypex Concentrate and the subsequently applied materials. Prior to the installation, it is recommended that a test section be completed under anticipated ambient and project conditions to demonstrate acceptable bond.

Note: Xypex Chemical Corporation makes no representations or warranties regarding the compatibility of Xypex products with plasters, stuccos, tiles and other surface applied materials. It is the responsibility of the installer of these surface-applied materials to take whatever measures are necessary, including testing, to ensure acceptance by or adhesion to the Xypex treated surface.