

FAST TRACK COATING SYSTEM

Xypex Coating System for Early Exposure to Water

2020-10

Xypex treatment of existing concrete water holding structures typically requires one of the following. Either one or two coats of Xypex Concentrate or one coat of Xypex Concentrate and one coat of Xypex Modified followed by 3 days of moist curing and then an additional 12 days of drying and hardening (18 days of drying and hardening prior to immersion if the water is waste contaminated). This relatively long curing and hardening period can create challenges if the project time line needs to be fast tracked or there is significant water runoff such that the environment will be virtually the same as full water immersion.

The following procedure can be used to allow a rapid return to service of the Xypex coated water holding structures (3 - 4 days from the start of application of the materials).

STEP 1: Thoroughly clean and profile all concrete surfaces to be treated to remove any overcoating materials or contaminants and to achieve an open pore, “tooth and suction” (ICRI CSP-3) profile.

STEP 2: Repair joint lines, cracks and surface defects if required as per Xypex standard repair procedures.

STEP 3: Wet the surface of the concrete until a saturated surface dry (SSD) condition is obtained. SSD concrete will not absorb any further water but has no glistening water on its surface. Maintain the concrete in an SSD condition until Xypex material is applied.

STEP 4: Coat surface of designated area with one coat of Xypex Concentrate at the rate of 2 lb./sq.yd. (1 kg/m²) as per manufacturer’s standard specifications.

STEP 5: Allow Xypex Concentrate coating to set and harden for between 12 hours and 24 hours. During this time, moist cure coating per Xypex product data sheet.

STEP 6: Mix Xypex Megamix I with Xycrylic Admix as per product data sheet instructions.

STEP 7: Apply one coat of Megamix I over top of Xypex Concentrate coating at an average thickness of 1/8” (3 mm)

or 11.25 lb./sq.yd. (5.6 kg/m²). The top coating thickness may be varied from 1/16” - 3/8” (1.5 - 10 mm) as per job conditions and requirements. Dampen Xypex Concentrate surface ahead of application of Megamix I as required to maintain an SSD condition.

STEP 8: Allow Xypex Megamix I to harden and cure for 2 - 3 days.

Prior to the installation, it is recommended that a test section be completed under anticipated ambient and project conditions to demonstrate acceptable bond.

Note:

- i. In most situations, no moist curing of Xypex Megamix I is required but in rapid drying conditions, Megamix I should be allowed to fully set and then be misted periodically to keep moist for 24 hours.
- ii. The above are recommended time frames only. If project requirements are such that these cannot be met, contact Xypex’s Technical Services Department.
- iii. See the Xypex Concentrate and Megamix I product data sheets for further detailed information and procedures.
- iv. For potable water applications curing must be completed at a minimum 50°F (15°C).

