METHOD STATEMENT

REACT INSTALLATION AND PROCEDURES

XYPEX REACT - SURFACE-APPLIED CRYSTALLINE CRACK-HEALING ACCELERATOR

2026-03-12

Application: Positive-side (water-pressure side) static cracks ≤ 0.5 mm (0.02 in) under hydrostatic pressure, with no active leakage (no water flow).

The following are general directions on the installation and use of Xypex React for Xypex admix-treated concrete elements. The information presented is in addition to Xypex product data sheets and is not meant to replace these or any other installation guides but rather is meant to give a general description of the installation practices, curing procedures and other information surrounding the use of Xypex products for waterproofing and protecting concrete and while they normally provide an acceptable final appearance they are not meant as aesthetic finishes.

Weather and Concrete Condition

1. The Xypex treatment must not be applied under rainy conditions or when ambient temperature is below 40°F (4°C).

2. Because Xypex requires water as a diffusion medium and to initiate the crystalline waterproofing process, all concrete, whether fresh or old, must be in a saturated surface dry (SSD) condition prior to application.

Coverage

For normal surface conditions, the coverage rate for each crack requiring treatment is 1.25 - 1.5 lb./sq.yd. (0.65 - 0.8 kg/m^2).

Surface Preparation

1. The concrete surface to be treated must be clean and free of laitance, dirt, film, paint, coatings or other foreign matter. The surface must also have an open capillary sys-tem to provide "tooth and suction" for the Xypex treatment. A CSP-3 per the International Concrete Repair Institute Guidelines and Surface Profile Chips is recommended.

2. Ensure Saturated Surface Dry (SSD) conditions prior to application.

Repairs Prior to Application

For cracks larger than 0.02" (0.5 mm) or for actively leaking cracks, refer to our crack repair method statement.

Mixing

1. Mix Xypex with clean water only (potable water that is free of salt and other deleterious materials).

2. Mix Xypex powder into the clean water with a paddle on a slow-speed electric drill (250 RPM) or with other equipment that ensures adequate mixing. For small jobs, Xypex may be mixed by gloved hand or with a trowel.

MIXING FOR SLURRY COAT

Mix Xypex powder with clean water to a creamy consistency in the following proportions:

For Brush Application

1.25 - 1.5 lb./sq. yd. (0.65 - 0.8 kg/m^2) of powder
5 parts powder to 2 parts water

Do not mix more Xypex material than can be applied in 20 minutes. As the mixture thickens, stir briefly to ensure the mixture remains fluid; but do not add water.

APPLYING XYPEX

Apply Xypex with a semi-stiff nylon bristle brush. The coating must be uniformly applied and should be just under 1/16 in. (1.25 mm).

The Xypex treatment must not be applied under rainy conditions or when ambient temperature is below 40°F (4°C). For recommended equipment, contact Xypex'sTechnical Services Department or your local Xypex Representative.

CURING

Generally a misty fog spray of clean water is used for curing the Xypex treatment. Curing should begin as soon as the Xypex has set to the point where it will not be damaged by a fine spray of water. Under normal conditions, it is sufficient to spray Xypex-treated surfaces three times per day for two to three days.

In hot or arid climates, spraying may be required more frequently. During the curing period, the coating must be protected from rainfall, frost, wind, the puddling of water and temperatures below 36°F (2°C) for a period of not less than 48 hours after application. If plastic sheeting is used as protection, it must be raised off the Xypex to allow the coating to breathe.

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NOTE:
i. For concrete structures that hold liquids (e.g. reservoirs, swimming pools, tanks, etc.), Xypex should be cured for three days and allowed to set for 12 days (18 days for waste water or corrosive solutions) before filling the structure with liquid.

ii. If any other cementitious system is applied over the Xypex coating, it should be after the coating has completely set but while it is still green (12 to 48 hours); the 12 to 24 hour window is considered ideal. For installations onto a Xypex coating older than 48 hours contact your local Xypex Representative regarding surface preparation and application recommendations. Xypex Chemical Corporation makes no representations or warranties regarding the compatibility of Xypex products with plasters, stuccos, tiles and other surface-applied.

For more instructions, alternative application methods, or information concerning the compatibility of the Xypex treatment with other products or technologies, contact the Technical Services Department of Xypex Chemical Corporation.

Caution

Xypex is highly alkaline.

1. Avoid contact with skin or eyes.

2. Protect hands with rubber gloves when handling dry powder or wet mixture.

3. If skin comes into contact with Xypex material, wash immediately and thoroughly with water for 15 minutes. If discomfort continues, seek prompt medical attention.

4. Wear eye protection. If dry powder or wet mixture gets into eyes, flush immediately and thoroughly with water and seek medical aid.

5. Wear a suitable mask where there is potential for generating dust. If Xypex is ingested, do not induce vomiting; have the affected person drink two glasses of water and obtain immediate medical attention.

6. For Safety Data Sheets, contact Xypex Chemical Corporation at 604.273.5265, toll-free 800-961-4477 or refer to SDS located at: www.xypex.com.

VERIFY & PREP

POSITIVE SIDE ≤ 0.5 mm (0.02 in)

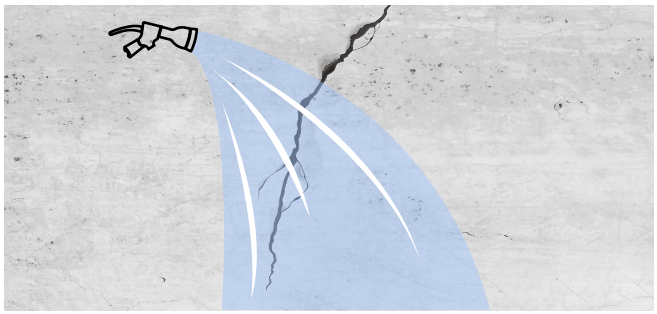


ICRI CSP 3



SSD PRE-WET

SATURATED SURFACE DRY



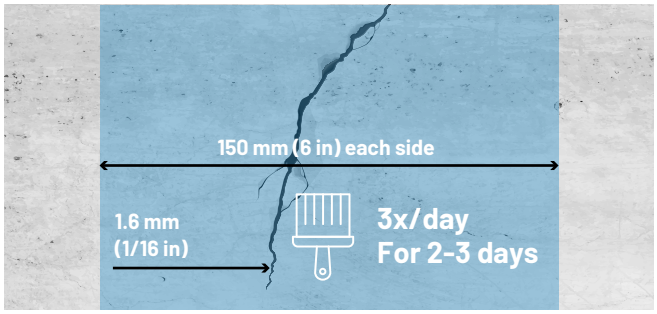


No standing water

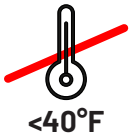


No glistening

APPLY & CURE







<40°F