



RESTORA-TOP 50

030100 MAINTENANCE OF CONCRETE

Concrete Restoration

Description

XYPEX RESTORA-TOP 50 is one of three Xypex products specifically formulated for the repair and rehabilitation of horizontal concrete surfaces. Xypex Restora-Top 50 is used for the patching or resurfacing of deteriorated concrete up to 1/2 in. (12 mm) thick. It is used on surfaces where light traffic conditions exist. Xypex Restora-Top 50 consists of specially modified Portland cement, aggregates, admixtures and bonding agents combined in controlled proportions to provide excellent adhesion properties as well as reduced shrinkage.

Recommended for:

- Concrete Floors
- Driveways
- Decks
- Patios
- Steps
- Walkways
- Curbs
- Rain Damaged Slabs
- Levelling Course for Thin Set Mortars

Advantages

- Excellent adhesion to existing concrete surfaces
- Easy to use – just add water and mix
- Approximately 30 minutes working time
- Contains an integral bonding agent
- Moist curing is not normally required
- Ready for foot traffic in about 2.5 hours
- Suitable for indoor and outdoor use
- VOC compliant

Limitations

Restora-Top 50 should not be mixed and placed at temperatures below 50°F (10°C) or above 80°F (27°C). Protection from direct sunlight is desirable under hot or windy conditions. Restora-Top 50 contains a polymer additive to enhance bond. To achieve maximum bond strength, the polymer must be allowed to dry out after the initial setting and curing period. Avoid immersion prior to full curing of Restora-Top 50.

Packaging

Xypex Restora-Top 50 is available in 55 lb. (25 kg) pails.

Storage

Xypex products must be stored dry at a minimum temperature of 45°F (7°C).

Coverage

At 1/4 in. (6.4 mm) thickness, each 55 lb. (25 kg) pail of Restora-Top 50 will cover 24.8 sq. ft. (2.4 m²). For brush or broom applications, the yield will vary with the thickness and texture required. Each 55 lb. (25 kg) pail will cover an area of approximately 105 - 115 sq. ft. (10 - 11 m²) for a brush or broom application.

Physical Properties

| Water Requirement | | |
|---|----------|---------|
| 0.936 U.S. gallons (3.6 litres) per 55 lb. (25 kg) pail | | |
| Flow, ASTM C 230 | | |
| 115% - 125% | | |
| Working Time at 68°F (20°C) | | |
| 30 - 40 minutes | | |
| Compressive Strength, CAN3 - A23.2 - 1B | | |
| @ 1 day | 2460 psi | 17 MPa |
| @ 7 days | 4930 psi | 34 MPa |
| @ 28 days | 5510 psi | 38 MPa |
| Tensile Bond Strength to Concrete | | |
| @ 7 days | 116 psi | 0.8 MPa |
| @ 28 days | 200 psi | 1.4 MPa |

NOTE: Bond strength was determined by direct tensile loading of Restora-Top 50 which had been applied by trowel to a fully cured concrete slab at an average thickness of 1/2 in. (12 mm).

Application Procedures

1. Remove all laitance, dirt, films, paint, coatings and other foreign matter.
2. Saturate concrete with clean water. Remove any excess surface water and allow surface to partially dry.

3. Place dry powder in a clean mixing container and add water to reach the desired consistency. For trowel application, add 0.936 U.S. gallons (3.6 litres) of potable water per each 55 lb. (25 kg) pail of powder. For brush or broom applications add extra water (approximately 1.5 pints/700 ml) per 55 lb. (25 kg) pail of powder. Do not mix more Restora-Top 50 than can be applied in 30 minutes.

4. When trowel applying (max. 1/2 in./12 mm thick), work a thin layer into the surface as a primer coat, then build up to the desired thickness and trowel to the desired finish. Avoid over-trowelling. If the thickness is greater than 1/2 in. (12 mm), apply in 1/2 in. (12 mm) layers allowing each layer to cure overnight.

5. When broom applying, first work Restora-Top 50 into the surface with a stiff bristle broom before lightly brooming to obtain an even surface texture.

Curing

Because of the bonding and water retaining agents included in the mix, Restora-Top 50 does not normally require moist curing or protection. However, when applied in hot or windy conditions, Restora-Top 50 may require protection from rapid moisture loss by lightly spraying with water as necessary or by covering with a sheet of plastic.

Technical Services

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 or your local Xypex Technical Services Representative.

Safe Handling Information

Xypex is alkaline. As a cementitious powder or mixture, Xypex may cause significant skin and eye irritation. Directions for treating these problems are clearly detailed on all Xypex pails and packaging. The Manufacturer also maintains comprehensive and up-to-date Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of workers and customers. The Manufacturer recommends you contact Xypex Chemical Corporation or your local Xypex Technical Services Representative to obtain copies of Safety Data Sheets prior to product storage or use.

Warranty

The Manufacturer warrants that the products manufactured by it shall be free from material defects and will be consistent with its normal high quality. Should any of the products be proven defective, the liability to the Manufacturer shall be limited to replacement of the product ex factory. The Manufacturer makes no warranty as to merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties expressed or implied. The user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith.

