# XYPEX MEGAMIX I

## DESCRIPTION

XYPEX MEGAMIX I is a thin parge coat for the waterproofing and resurfacing of vertical masonry or concrete surfaces, as a cap coat for Xypex Concentrate, or as an architectural rendering. Megamix I is a unique blend of portland cement, treated silica sand, fibers and proprietary chemicals. It is mixed with Xycrylic Admix to produce enhanced bond. Megamix I is applied by brush or trowel up to a thickness of 10 mm. The high performance characteristic of Megamix I are enhanced by Xypex's unique crystalline waterproofing and protection technology.

**Note:** For patching or resurfacing deteriorated concrete, requiring a thicker parge coat (between 10 mm to 50 mm) refer to the product data sheet for Xypex Megamix II.

## RECOMMENDED FOR:

- Waterproof coating for vertical concrete block surfaces and cast-in-place concrete walls
- A secondary or cap coat for Xypex Concentrate applications to porous masonry surfaces
- Lining for swimming pools, tunnels and tanks

## ADVANTAGES

- Excellent adhesion and bond to concrete substrates
- Easy to apply
- Fiber reinforced
- Reduces surface absorption
- Provides good surface for painting or as a final finished surface

## PACKAGING

Megamix I is available in 20 kg bags or pails.

## STORAGE

Xypex products must be stored dry at a minimum temperature of 7°C. Shelf life is 1 year.

## COVERAGE

Required coating thickness will vary depending on project requirements. At the recommended thickness of 3.2 mm, one 20 kg unit of Megamix I will cover 3.24 m². Megamix I may be applied as thin as 1.6 mm provided it is used as a cap coat over a coat of Xypex Concentrate. For application thickness exceeding 10 mm, consult the Technical Department of Xypex Chemical Corporation or your local Xypex representative.

## PHYSICAL PROPERTIES

| | | |
|---|---|---|
| **Mixing Liquid Required (2 water : 1 part Xycrylic)** | | |
| | | 4 l / 20 kg unit |
| **Compressive Strength (ASTM C109)** | | |
| @ 7 days | MPa | 16.7 |
| @ 28 days | | 24.9 |
| **Direct Tensile Bond Strength (ACI 503R Appendix A)** | | |
| concrete block | MPa | 1.54 |
| 24 hr Concentrate | | 1.24 |
| **Water Permeability and Absorption CSN 73 2578 "Test for Water-tightness of Surface Finishes of Building Materials"** | | |
| 30 min water absorption (% of untreated concrete block) | | 86.8% reduction |

**Note:** For bond and absorption tests, Megamix I was applied at 1.6 mm thick onto either pressure washed concrete block or 24 hr old Xypex Concentrate.

## APPLICATION PROCEDURES

**1. SURFACE PREPARATION** The concrete surface to be treated with Megmix I must be clean and free from dirt, oil, paint, or other foreign substances that could hinder bond. Structural repairs (i.e. cracks, faulty construction joints, rock pockets, tie holes, spalled concrete, etc.) should be performed prior to the application of the Megamix I coating. Pressure washing of surface may be required to ensure open capillary system to provide "tooth and suction" for the Megamix I coating.

**2. WETTING CONCRETE SURFACE** The concrete or masonry surface must be thoroughly saturated with clean water to control substrate suction and prevent premature drying out of the Megamix I coating.

3. MIXING PROCEDURES Prepare the mixing liquid by combining 1 part Xycrylic Admix with 2 parts clean water. Then, mix 4 l of the mixing liquid with one 20 kg unit of Megamix I powder. Mix thoroughly to a creamy consistency that is suitable for either a brush or trowel application. Let mixture stand for 3-5 minutes, re-agitate and then apply.

4. APPLYING MEGAMIX I Ensure surface is saturated-surface-damp just prior to application. Brush or trowel apply Megamix I to the surface at the rate of 2.9 to 6.4 kg/m$^2$. This coverage rate will produce a coating of between 1.6 mm to 3.2 mm thick depending on the porosity of the substrate. For spray applicaton contact the Technical Department of Xypex Chemical Corporation or your local Xypex representative for specific details.

For applications such as concrete block walls where Xypex Concentrate is to be used as the initial coat in a two-coat system, the Concentrate coating should be installed as per the manufacturer's standard instructions. Megamix I should then be applied over the Concentrate coating while the Concentrate is still "green" (i.e. following initial set / approximately 2-4 hours). The Megamix I coating should not be applied later than 24 hours after the application of Xypex Concentrate.

5. CURING When used with Xycrylic Admix as specified above, Megamix I should not require any further curing. However, if weather conditions result in rapid evaporation (such as very hot, or windy), then a fine mist of water should be sprayed on the coating 2-3 times for one day.

## 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 Department of Xypex Chemical Corporation or your local Xypex 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 Material Safety Data Sheets on all its products. Each sheet contains health and safety information for the protection of your employees and customers. The Manufacturer recommends you contact Xypex Chemical Corporation or your local representative to obtain copies of Material 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 the particular purpose and the 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.



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