



## XYCRYLIC ADMIX

### DESCRIPTION

XYCRYLIC ADMIX is a water-based, high solids, polymer dispersion specifically designed for fortifying portland cement compositions. This liquid is milky-white in color and improves curing qualities, enhances bond, imparts excellent water and weather resistance, and reduces shrinkage cracking. Xycrylic Admix is also used to fortify Xypex Patch'n Plug.

### RECOMMENDED FOR:

- Patching and Concrete Repairs
- Resurfacing Floor Underlayers
- Terrazzo Flooring
- Spray and Fill Coats
- Highway and Bridge Deck Repair

### ADVANTAGES

- Hardens and toughens cement mortars for improved durability
- Enhances adhesion capabilities to a wide variety of surfaces
- Increases resistance to many industrial chemicals
- Eliminates water curing

### DURABILITY AND STRENGTH

Cement mortars modified with Xycrylic Admix are hard, tough and durable. Compared with unmodified mortars, Xycrylic modified mortars have far superior flexural, adhesive and impact strengths as well as excellent abrasion resistance. They are especially useful where thin sections are desirable and where excessive vibration and heavy traffic is encountered.

### ADHESION

Xycrylic Admix modified mortars have excellent adhesion to a variety of surfaces such as concrete, masonry, brick, wood, metals and others.

### RESISTANCE PROPERTIES

Cement mortars modified with Xycrylic Admix are resistant to many industrial chemicals as well as ultraviolet light and heat. Mortars containing Xycrylic Admix dry to a uniform color.

### PACKAGING

Xycrylic Admix is available in 128 fl. oz. (3.79 litre) and 5 gallon (18.95 litre) bottles.

### STORAGE

Keep Xycrylic Admix from freezing.

### MIXING

Xycrylic Admix may be used full strength or diluted with clean water depending on application requirements.

### TEST DATA

| PHYSICAL STRENGTH OF CEMENT MORTARS  |                |                |                |                |              |
|--------------------------------------|----------------|----------------|----------------|----------------|--------------|
| ASTM Standard Test Method            | Mixing Liquid  |                |                |                |              |
|                                      | Full Strength  | 1:1 Water      | 1:2 Water      | No Xycrylic    |              |
| <b>C-190-85 Tensile Strength</b>     | 610<br>(4.2)   | 440<br>(3.0)   | 375<br>(2.6)   | 235<br>(1.6)   | psi<br>(MPa) |
| <b>C-109-88 Compressive Strength</b> | 5700<br>(39.3) | 4530<br>(31.2) | 3830<br>(26.4) | 2390<br>(16.5) | psi<br>(MPa) |
| <b>C-348-86 Flexural Strength</b>    | 1570<br>(10.8) | 1130<br>(7.8)  | 960<br>(6.6)   | 610<br>(4.2)   | psi<br>(MPa) |
| <b>Shear Bond Adhesion</b>           | 640<br>(4.4)   | 360<br>(2.5)   | 260<br>(1.8)   | 45<br>(0.31)   | psi<br>(MPa) |

**Note 1:** Strength properties are based on cement mortar prepared as 3 parts sand to 1 part cement by volume.

**Note 2:** Strengths are based on a 28 day air cure. Wet cure strengths may be less.



## APPLICATION PROCEDURES

Xycrylic Admix may be used full strength or diluted with clean water depending on application requirements.

### FOR USE WITH CEMENT MORTAR

1. Thoroughly premix sand and cement (1 part cement to 2 parts sand).
2. Blend Xycrylic Admix with water according to strength, bonding and resistance requirements.
3. Add the Xycrylic mixing liquid (whether full strength or diluted with water) to the sand and cement.
4. Mix thoroughly until desired workable consistency is reached. Always withhold some Xycrylic mixing liquid so that the mortar will not be too fluid and so that mixing liquid can be carefully gauged near end of mixing cycle (2 - 4 minutes).

### FOR USE WITH PATCH'N PLUG

1. Blend Xycrylic Admix with clean water (1 part Xycrylic to 1 part water by volume).
2. Add Xycrylic mixing liquid to the Patch'n Plug powder at a rate of 1 part liquid to 3.5 parts Patch'n Plug.
3. Mix to a stiff putty consistency. Do not mix more than can be used in three minutes.

## CURING

For optimum physical properties, cement mortars modified with Xycrylic Admix should be air-cured at ambient temperature and relative humidity.

## 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

Xycrylic Admix is alkaline and has a slight ammoniacal odor. This product may be a mild to moderate skin and eye irritant. In addition, many of the components of the cementitious products that are used in conjunction with the Xycrylic Admix may also possess significant skin and eye irritation potential. 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 workers and customers. The Manufacturer recommends you contact Xypex Chemical Corporation or your local Xypex 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 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.



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