



Poly 1

Uses of Poly 1

Poly 1 is an acrylic admixture used to strengthen cementitious plasters.

Where to Use Poly 1

- As a strengthening admixture for stucco patching materials
- Scratch and Brown Stucco mixes
- Portland Cement plasters
- High build Patches or applications

Packaging

- 18.1 kg per 19-liter pail (40 lbs per 5-gallon pail)
- 215 kg per 250-liter drum (473 lbs per 55-gallon drum)



Poly 1 is a 100% acrylic admixture for use with stucco or Portland cement plaster mixes. Poly 1 is designed to enhance the adhesion, workability, durability and the physical properties of unmodified stucco, Portland cement plaster mixes and concrete mixes.

Features

Benefits

• Acrylic polymer	Significantly improves adhesion, cohesion, tensile, compressive and flexural strengths of cement-based materials
• Improved freeze/thaw stability of Portland cement-based materials	Suitable for cold climate applications
• Increases moisture resistance	Reduces efflorescence in stucco
• Adds strength to exterior cement plaster (stucco)	Reduces cracks
• Water based	Safe, non-toxic, clean up tools with water

How to Apply Poly 1

Surface Preparation

1. All Surfaces must be clean, dry and free of dust, grease, and contaminants
2. New concrete, stucco and masonry must be clean and cured a minimum of 28 days.

Mixing

1. The normal ratio of Poly 1 to clean potable water is 1 part Poly 1 to 3 parts water (1:3). Where increased physical and chemical resistance is required, increase the Poly 1 content in the mixing liquid to a 1:2 or to a 1:1 Poly 1 to water ratio. Use the following as a guide:
 - A. As a scrub coat applied before patching or overlays use straight Poly 1
 - B. Heavy build or thick applications such as stucco, use 1:2 in mild climates and 1:1 in cold to freezing climates
 - C. For cement plasters or repair mortars, 1:3 or 1:2 should suffice for added strength
2. Always mechanically mix. Do not over mix or mix at a high speed.

Application

Sand/cement stucco

1. Thoroughly pre-mix all cement and sand first. The sand must be clean, free of clay, and dry.
2. Make up mixing liquid consisting of a 1:3 or 1:2 parts Poly 1 to water blend depending upon the requirements of the job or properties desired.
3. Slowly add the required amount of mixing liquid to the cement/sand mixture and mix with a slow-speed mixer for 1–2 minutes to avoid entrapping air.
4. For pocket repair areas, use a brush to apply straight Poly 1 into the void, scrubbing thoroughly to displace all air. Place the repair mix into the scrub-coated repair area while the scrub coat is still wet or tacky.
5. For Stucco plasters, place the mix into the lath as normal and avoid over troweling. The trowel should be cleaned frequently, kept wet, and used with minimal pressure.
6. Maximum time for placement of a mix should not exceed 20 minutes. Higher air and surface temperatures will decrease working and placement time.

Drying Time

Drying time can vary with environmental conditions, however stucco or cement plasters mixed with Poly 1 and water will dry faster than straight water screeds.

For Best Performance

- Do not use Poly1 with cement plaster mixes that contain air entrainment agents.
- Protect SonoWall materials during transportation and installation to avoid physical damage.
- Store SonoWall materials in a cool, dry place, protected from freezing. Store at no less than 4°C (40°F).
- Protect from extreme heat and direct sunlight.
- Do not apply SonoWall materials in ambient temperatures below 4°C (40°F). Provide supplementary heat during installation and drying period (at least 24 hours after installation and until dry) when temperatures less than 4°C (40°F) prevail.
- Do not apply SonoWall materials to frozen surfaces.
- Shelf life is one year when unopened and stored as directed.

Technical Support

Consult BASF Wall Systems' Technical Service Department (1-800-221-9255) for specific recommendations concerning all other applications.

Health and Safety

Caution

Contains acrylic emulsion.

Risk

May cause skin, eye or respiratory irritation.

Precautions

Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep container closed when not in use. DO NOT take internally. Use only with adequate ventilation. Use impervious gloves, eye protection and if the TLV is exceeded or used in a poorly ventilated area, use NIOSH/ MSHA approved respiratory protection in accordance with applicable Federal, state and local regulations.

First Aid

1. For eye contact, flush thoroughly with water for at least 15 minutes.
2. For skin contact, wash affected areas with soap and water. If irritation persists, SEEK MEDICAL ATTENTION. Remove and wash contaminated clothing.
3. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs or if swallowed, SEEK IMMEDIATE MEDICAL ATTENTION.

Read Material Safety Data Sheet before using this product.

Proposition 65

This product contains materials listed by the state of California as known to cause cancer, birth defects or other reproductive harm.

VOC Content

0 g/l, or 0 lbs/gal less water and exempt solvents.

**FOR MEDICAL EMERGENCIES ONLY: CALL
CHEMTREC 1-800-424-9300.**

Note

BASF Wall Systems is an operating unit of BASF Construction Chemicals, LLC. (herein after referred to as "BASF Wall Systems")

Residential Policy

On one and two-family residential framed construction, BASF Wall Systems requires that the wall system selected be one that includes provisions for moisture drainage. The choices include water managed EIFS, SonoWall Stucco Wall Systems, and SonoWall Cement-Board Stucco™ Wall Systems. SonoWall Exterior Surfacing Systems for insulating concrete forms are also acceptable. There are no exceptions to this policy. Under no circumstances will BASF Wall Systems warrant the use of any other system on this type of construction without expressed written authorization from BASF Wall Systems [Residential construction using EIFS on masonry (CMU) or poured concrete does not require the additional water management provisions described above.]

See the SonoWall *Residential Policy Bulletin* for a more detailed discussion of this topic. Consult BASF Wall Systems Technical Services Department for specific recommendations concerning all other applications. Consult the SonoWall web site, www.sonowall.cc for additional information about products and systems and for updated literature.

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