



ChemMasters

SPECIALTY CONSTRUCTION PRODUCTS

POLYWELD

COPOLYMER BONDING AGENT
FOR INTERIOR OR EXTERIOR APPLICATIONS

P R O D U C T D A T A

DESCRIPTION

Polyweld is a copolymer emulsion designed for use as a bonding agent for concrete, stucco and plaster. It dries to form a thin flexible film. It is nontoxic, and unaffected by the alkalinity of gypsum, lime and cement. Polyweld is resistant to most alkalis and acids.

After Polyweld is dry on a substrate, it will rewet one time when topped with a cementitious product in order to effectively bond the fresh material to the substrate. After this Polyweld will not be affected by contact with moisture. Because of this Polyweld is suitable for use on exterior applications.

USES

- Polyweld bonds fresh cementitious materials such as concrete, mortar, stucco and plaster to various existing surfaces including concrete, brick, tile, stone, concrete block, plaster, gypsum board, lath or wood.
- Polyweld can also be used as a polymer modifier for cementitious mixes to increase bond strength, flexural strength, acid resistance and permeability resistance.
- Polyweld can be used in interior or exterior applications and on horizontal and vertical surfaces

ADVANTAGES

- Rewettable one time- up to 72 hours after drying
- Can be used on interior or exterior applications
- Resistant to most alkalis & acids

TECHNICAL DATA

- Approved by the Board of Standards and Appeals as a bonding agent to bond plaster to concrete for use in New York City under calender number: 176-61SM.
- Military Specification MIL-B-19235 (Docks) Bonding Compound, Concrete, dated, 12 December, 1955; Issued by U.S. Navy - Bureau of Yards and Docks.

DIRECTIONS FOR USE

PLASTER/PATCHING APPLICATIONS

Remove all loose, spalled or disintegrated concrete, masonry or mortar. Remove any dirt, oil, grease, wax, dust, efflorescence, surface laitance, paint or other foreign material. Form release agents or membrane curing compounds must also be removed.

Areas to be patched or coated should be blown clean with air pressure or flushed with water. In hot, dry weather, surfaces may be cooled by fog spraying with water. Do not leave standing water.

For hand applications, use brushes or rollers designed for use with latex paints. Dampen brushes or rollers prior to use and shake out excess water. For larger areas, use airless sprayer equipment with 0.015 to 0.020 inch (0.38-0.51 mm) spray tips. Hold spray gun 12 to 18 inches from the surface and apply Polyweld using a cross coat technique consisting of a horizontal pass followed by a vertical pass.

Apply material at 200 square feet per gallon on dense surfaces. Porous surfaces may require more material.

Allow to dry until tacky to touch (15 to 30 minutes). Place new concrete of 1/2" minimum thickness, or trowel on new plaster. Polyweld is formulated to provide exceptional bond when first activated by moisture. Polyweld will only rewet one time after application to develop this bond. If the project is exterior and if the topcoat is not applied immediately after the Polyweld dries, check several areas to ensure the Polyweld will rewet.

DIRECTIONS FOR USE

NON-BEARING OVERLAYS/UNDERLAYMENTS

Base concrete must be a minimum of 3 days old. The concrete must be clean and rough. All unsound concrete should be removed. The surface must be mechanically roughened with a shotblaster, scarifier or other method that would provide a profile of a minimum of 100 grit sandpaper.

Mix 1 gallon of Polyweld with one gallon of water and apply to the substrate at 200 square feet per gallon. For hand applications, use brushes or rollers designed for use with latex paints. Dampen brushes or rollers prior to use and shake out excess water. For larger areas, use airless sprayer equipment with 0.015 to 0.020 inch (0.38-0.51 mm) spray tips. Hold spray gun 12 to 18 inches from the surface



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and apply Polyweld using a cross coat technique consisting of a horizontal pass followed by a vertical pass. Allow Polyweld to dry before applying cementitious overlayment. / underlayment.

DIRECTIONS FOR USE

TRAFFIC BEARING OVERLAYS

Prior to installation, contact ChemMasters' Technical Service to determine if using Polyweld is appropriate for your particular application. In some instances, an epoxy bonding agent (Duraguard 100) may be more suitable.

Base concrete must be a minimum of 3 days old. The concrete must be clean and rough. All unsound concrete should be removed. The surface must be mechanically roughened with a shotblaster, scarifier or other method that would provide a profile of a minimum of 100 grit sandpaper. It is preferable that the concrete be roughened sufficiently to expose large aggregate.

A bond slurry coat using Polyweld should be mixed and applied before the concrete overlay. The bond slurry coat will consist of 1 gallon of Polyweld, 2 gallons of water and 30 pounds of a cement. Mix ingredients with a drill and paddle for approximately 3 minutes or until lump free. This mixture should be sufficient for 200 - 300 square feet of concrete. Scrub the mixture with a stiff bristle broom into the substrate and apply a cementitious topcoat before the slurry coat dries.

DIRECTIONS FOR USE

POLYMER MODIFIER

When using Polyweld to produce a polymer modified mortar, add approximately 3 gallons of Polyweld per 100 pounds of cementitious material. The properties achieved using Polyweld as a polymer modifier will vary depending on the composition of the mortar. A complete evaluation should be completed prior to using the polymer modified mix. Contact ChemMasters Technical Service personnel for assistance in this evaluation.

CLEAN-UP

Clean tools and equipment with detergent and water immediately following use. Clean drips and over-spray with water while still wet. Dried Polyweld will require mechanical abrasion for removal.

LIMITATIONS

- Keep from freezing
- Do not apply to frozen or frost filled surfaces
- Do not over mix or over trowel mixed modified with Polyweld as this may cause excessive entrapment of air.
- Do not use over water soluble paints or rusted surfaces
- Do not apply when the surface or air temperature is expected to go below 40°F (4°C) before the Polyweld dries

STORAGE

Keep from freezing

CAUTIONS

May cause skin, eye and respiratory tract irritation. Do not take internally. Keep out of reach of children.

This Product is Formulated and Labeled for Industrial and Commercial Use Only

FOR BEST RESULTS AND SAFEST USAGE, USER IS SPECIFICALLY DIRECTED TO CONSULT THE CURRENT MATERIAL SAFETY DATA SHEET AND PACKAGE LABEL FOR THIS PRODUCT

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