



THE EUCLID CHEMICAL COMPANY

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EUCO WELD



BONDING AGENT FOR PLASTER, STUCCO and CONCRETE

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EUCO WELD is an aqueous resin adhesive of a polyvinyl acetate base, for permanently bonding plaster, stucco and concrete to damp or dry concrete and masonry surfaces. EUCO WELD develops minimum bonding strengths considerably in excess of 500 psi (3.4 MPa) and has a performance range of -35° F (-37° C) to 275° F (135° C) without bond failure.

PRIMARY APPLICATIONS

- Bonding the finish plaster coat or stucco to concrete or masonry surfaces
- Bonding agent in the repair of ceiling and wall structures
- May be used to bond new concrete to existing concrete (Note: Do not use EUCO WELD in areas subjected to constant wet conditions such as swimming pools, tank linings, parking areas, etc.)
- Interior and dry applications

FEATURES / BENEFITS

- Eliminates brown and scratch coats when plastering ceilings and columns.
- Film remains flexible and re-wettable up to 24 hours after application.
- Can be applied to either damp or dry surfaces.

SPECIFICATIONS / COMPLIANCES

- EUCO WELD is approved by the City of New York Board of Building Standards and Appeals Docket No. 155-60-SM
- EUCO WELD is approved by the Cleveland Board of Building Standards & Appeals.
- EUCO WELD meets ASTM C 1059-86, Standard Specifications for Latex Agents for Bonding Fresh to Hardened Concrete, Type I.

PACKAGING

EUCO WELD is packaged in 55 gal (208 liter) drums, 5 gal (18.9 liter) pails, 6/1 gal (3.8 liter) units per case and 12/1 quart (1 liter) units per case.

TECHNICAL INFORMATION

Typical Engineering Data

The following tensile strength test results are typical of those expected in using EUCO WELD for the noted bonding applications:

Tensile Strength psi (MPa)*

<u>Material Bonded</u>	<u>Min. Req'd. Specification</u>	<u>Bonded Tacky</u>	<u>Bonded after 24 hrs. Aging</u>
1:3 Perlite Plaster	150 (1.0)	270 (1.9)	243 (1.7)
Neat Moulding Plaster	250 (1.7)	543 (3.7)	478 (3.3)
1:3 Ottawa Sand Mortar	200 (1.4)	197 (1.4)	**222 (1.5)
1:3 Gray Gypsum & Standard Sand	60 (0.4)	475 (3.3)	225 (1.6)
Finish Plaster	120 (0.8)	55 (.4)**	40 (.3)**
Concrete	-----	215 (1.5)	183 (1.3)
ASTM C 1042-85	-----	615 (4.2)	750 (5.2)

*Commercial Testing Laboratory report available on request.

**All tests in these series broke at the unbonded sections of the specimens indicating the bond was stronger than the plaster or the mortar.

Bond Strength @ 14 days

ASTM C 1042-85: 680 psi (4.7 MPa)

Appearance

EUCO WELD is a free flowing salmon colored liquid.

Shelf life is 1 year in original, unopened package.

COVERAGE

ft²/gal (m²/liter)

Bonding plaster to new concrete surfaces	400 to 500 (9.8 to 12.3)
Bonding plaster or stucco repairs	300 to 400 (7.4 to 9.8)
Bonding self-leveling underlayment	175 to 300 (4.3 to 7.4)
Cement bond coat	200 to 250 (4.9 to 6.1)

DIRECTIONS FOR USE

PLASTER APPLICATIONS:

Surface Preparation-EUOCO WELD must be applied to structurally sound surfaces which are clean and free from all loose and scaly materials. Do not use over water soluble calcimine paints or rusted surfaces. Remove any traces of dirt, dust, oil, grease or wax. Painted surfaces should be sanded to remove the gloss.

Mixing-When used in plaster applications, EUOCO WELD should be used as is from the container and requires no pre-mixing.

Placement-EUOCO WELD should be applied by brush, roller or spray in one continuous unbroken film. Allow at least 30 to 40 minutes drying time, or until tacky to the touch, before applying the plaster. When making plaster repairs it is imperative that each coat of plaster be allowed to properly cure before the application of successive coats.

Finishing-Finish the plaster to the desired texture.

CEMENT BOND COAT:

Surface Preparation-If using this product as a slurry bond coat for a traffic bearing topping, the concrete must be a minimum of 3 days old.

The concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabber, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 1/8" (3 mm) and expose the coarse aggregate of the concrete.

NOTE: ACID ETCHING IS NOT ACCEPTABLE.

The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing. Allow the concrete surface to dry. Do not place the cement bond coat on standing water.

All concrete must possess an open surface texture with all curing compounds and sealers removed.

Bonding-For bonding traffic bearing toppings with this product, The Euclid Chemical Company strongly recommends using a cement coat rather than using this product as a primer by itself. The cement bond coat should be mixed as follows:

94 lb (42.6 kg) cement

3 gal (11.4 liter) EUOCO WELD

6 gal (22.7 liter) water

Coverage will be 600-800 ft² (56-74 m²) for this quantity. Actual coverage is highly dependent upon the substrate profile.

After the surface has been prepared, prime all areas with the cement bond coat before the topping is applied.

Mixing-Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large

jobs. All materials should be in the proper temperature range of 40°F (5°C) - 90°F (32°C). Add the appropriate amount of EUOCO WELD and water for the batch size and then add the cement. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

PLACE THE TOPPING ON THE CEMENT BOND COAT BEFORE IT DRIES OUT.

PRIMER FOR NON-TRAFFIC BEARING TOPPINGS AND SELF-LEVELING UNDERLAYMENTS :

Surface Preparation-New concrete must be a minimum of 3 days old and must be broom textured at the time of placement to secure a good mechanical bond for the underlayment.

Old concrete must be clean and textured with all oil, dirt, debris, curing compounds, sealers and paint removed. Unsound concrete may be removed by a scabber, bushhammer, shotblast or scarifier which will give a surface profile similar to very coarse grit sandpaper. Remove all residue with a vacuum cleaner or pressure washer.

Acid etching is acceptable only when mechanical preparation is impractical. Only contractors experienced in acid etching should use this means of surface preparation. The salts of the reaction must be thoroughly washed away. Allow the concrete to completely dry.

Mixing-EUOCO WELD may be diluted with water by simply mixing one gallon of EUOCO WELD with one gal (3.8 liter) of water and agitating until the solution is uniform.

Placement-Broom or brush the primer into place. Allow to dry before placing the underlayment. NOTE: If the surface has not been appropriately sealed, a second application of the primer may be necessary.

Allow the EUOCO WELD to dry but place the topping within 24 hours.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

PRECAUTIONS / LIMITATIONS

- EUOCO WELD should not be used where it will be subjected to constantly wet conditions, such as in repair of sidewalks or parking ramps.
- Do not use material at temperatures below 45°F (7°C).
 - Keep from freezing.

Form Euco Weld-12.97

WARRANTY: The Euclid Chemical Company ("Euclid") solely and expressly warrants that its products shall be free from defects in materials and workmanship for six (6) months from the date of purchase. Unless authorized in writing by an officer of Euclid, no other representations or statements made by Euclid or its representatives, in writing or orally, shall alter this warranty. EUCLID MAKES NO WARRANTIES, IMPLIED OR OTHERWISE, AS TO THE MERCHANTABILITY OR FITNESS FOR ORDINARY OR PARTICULAR PURPOSES OF ITS PRODUCTS AND EXCLUDES THE SAME. If any Euclid product fails to conform with this warranty, Euclid will replace the product at no cost to Buyer. Replacement of any product shall be the sole and exclusive remedy available and buyer shall have no claim for incidental or consequential damages. Any warranty claim must be made within one (1) year from the date of the claimed breach. Euclid does not authorize anyone on its behalf to make any written or oral statements which in any way alter Euclid's installation information or instructions in its product literature or on its packaging labels. Any installation of Euclid products which fails to conform with such installation information or instructions shall void this warranty. Product demonstrations, if any, are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. Buyer shall be solely responsible for determining the suitability of Euclid's products for the Buyer's intended purposes.