



# THE EUCLID CHEMICAL COMPANY

19218 REDWOOD ROAD • Cleveland, OH 44110  
(216) 531-9222 • (800) 321-7628 • FAX (216) 531-9596  
www.euclidchemical.com

# THIN COAT



## LATEX MODIFIED PATCH KIT

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**THIN COAT** is a latex modified cementitious product designed for use as a concrete repair mortar at thicknesses of up to 1/2" (13 mm). It is formulated to incorporate liquid latex technology, which provides excellent durability under freeze-thaw cycling as well as protection against ingress by water and de-icing salts. THIN COAT is easy to work with at a high slump consistency and provides a fast setting abrasion resistant repair.

### PRIMARY APPLICATIONS

- Parking decks
- Docks
- Ramps
- Curbs and gutters
- Floors
- Marine structures
- Joints
- Pavements and walkways

### FEATURES / BENEFITS

- Provides a strong, wear resistant patch
- Excellent durability under freeze/thaw cycling
- Resists penetration of water and de-icing salts for good substrate protection
- Excellent bond to properly prepared sound concrete
- Easy to use two part system
- Suitable for both indoor and outdoor use

### SPECIFICATIONS / COMPLIANCES

- THIN COAT attains a bond strength in compliance with ASTM C 1059-86 Type II systems.
- THIN COAT has been approved for use by the Ohio EPA for contact with drinking water supplies.

### PACKAGING / YIELD

THIN COAT is a unit containing 44 lb (20.0 kg) of THIN COAT POWDER and 1 gal (3.8 liter) of THIN COAT LIQUID and yields 0.41 ft<sup>3</sup> (0.01 m<sup>3</sup>) of mixed material. This kit is packaged in a 5 gal (18.9 liter) pail containing both the powder and the liquid latex additive, or as a matched bag and jug unit. One unit of THIN COAT will cover approximately 20 ft<sup>2</sup> (1.9 m<sup>2</sup>) when placed at an average depth of 1/4" (6 mm) thickness.

Up to 40 lb (18 kg) of pea gravel may be added per kit for filling deep patches. Note: This product requires a curing compound.

### TECHNICAL INFORMATION

#### Typical Engineering Data

#### Compressive Strength

ASTM C-109, 2" (50 mm) Cubes

Age	Strength
1 day	3,000 psi (21 MPa)
3 days	4,000 psi (28 MPa)
7 days	5,500 psi (38 MPa)
28 days	7,000 psi (48 MPa)

#### Flexural Strength ASTM C-78

28 days 1,600 psi (11 MPa)

#### Bond Strength ASTM C-1042

14 days 1,500 psi (10 MPa)

#### Unit weight ASTM C-138

128 lb/ft<sup>3</sup> (2051 kg/m<sup>3</sup>)

#### Appearance

THIN COAT is a free flowing powder designed to be mixed with a white latex liquid (THIN COAT LIQUID) After mixing and placing, the color may initially appear darker than the surrounding concrete. While this color will lighten up substantially as the THIN COAT cures and dries out, the repair may always appear somewhat darker than the surrounding concrete.

This product is designed for finishing with a float or broom appearance. A steel trowel finish may be applied but timing of the final trowel is critical and the contractor may have difficulty achieving a smooth finish over a large area.

#### DIRECTIONS FOR USE

**Surface Preparation**-New concrete must be a minimum of 28 days old if an epoxy adhesive will be used to bond the topping. If a product bond coat is used, 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. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. NOTE: Use of an epoxy bonding agent is strongly recommended if acid etching will be used to create the surface profile.

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

**Joints and Edges**-Edges should be sawcut to 1/4" (6 mm) deeper than the topping thickness and the floor should be notched at the edge of the repair to provide a locked in, reinforced edge. Expansion joints should be brought up through the repair by sawcutting or with the use of a divider strip.

**Bonding**-After the surface has been prepared, prime all areas with either a bond coat of THIN COAT or a bonding agent such as CORR-BOND or EUCO #452 EPOXY. Note: If the substrate has been prepared by acid etching, use of an epoxy primer is highly recommended.

**Bond Coat**-Mix THIN COAT as instructed but add an additional pint (0.47 liter) of water per unit to the mix. Broom the bond coat on to the prepared and pre-dampened concrete. Apply the THIN COAT topping before the bond coat has dried.

**Epoxy Primer**-Use EUCO #352 (LV or MV) epoxy adhesive for exterior repairs. Use EUCO #452 (LV or MV) epoxy adhesive for interior repairs.

**Note:** For extended working time, epoxy type bond strengths, and/or corrosion protection of reinforcing steel, use CORR-BOND cement/epoxy compound as a bonding agent and a protective coating for re-bar.

Follow mixing and placement instructions on the respective product technical data sheet.

**Mixing**-Small quantities of THIN COAT 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 60°F (16°C) - 90°F (32°C). Add the appropriate amount of THIN COAT LIQUID for the batch size and then add the dry product. Mix a minimum of 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

**Placement**-Discharge material from mixer and place onto floor. For patching, spread with a trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand troweling.

**Finishing**-Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation. If additional liquid is required, use THIN COAT LIQUID or EUCOBAR finishing aid.

**Curing and Sealing**-To prevent surface cracking, cure the floor with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX. (Note: A solvent based curing compound should not be used on this product.) In hot, windy or direct sunlight situations, re-wet the surface after the curing compound has dried and cover with polyethylene for a minimum of three (3) days.

If a curing compound is not desired, wet cure for a minimum of three (3) days.

**Note:** Always re-establish floor and slab joints when using this product as an overlay.

#### CLEAN-UP

Clean tools and equipment with water before the material hardens.

Shelf life is 2 years in original, unopened package.

#### PRECAUTIONS / LIMITATIONS

- Store in a dry place above freezing.
- Keep liquid and powder off of skin and out of eyes.
- Wear protective clothing and eyewear.
- May not be suitable as an overlay for abusive traffic. Use THIN-TOP SUPREME or CONCRETE-TOP SUPREME.
- Do not use material at temperatures below 45°F (7°C).
- No heavy traffic until the product has cured.
- Keep repair from freezing until a minimum strength of 1000 psi (7 MPa) is reached.
- Always re-establish floor and slab joints when using this product as an overlay.

Form Thin Coat-12.97

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