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CONCRETE COAT

LATEX MODIFIED PATCH KIT

CONCRETE COAT is a polymer modified cementitious mortar designed for use as a concrete repair mortar at thicknesses of 1/2" - 2" (13 mm - 50 mm). It is formulated to incorporate liquid latex technology, which provides excellent durability under freeze-thaw cycling as well as reducing ingress by water and deicing salts. CONCRETE COAT is easy to work with at a high slump consistency and provides a fast setting abrasion resistant patch.

PRIMARY APPLICATIONS

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

FEATURES / BENEFITS

- Provides a strong, wear resistant patch
- Excellent durability under freeze/thaw cycling
- Resists penetration of water and deicing 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
- High slump formula for easy handling

SPECIFICATIONS / COMPLIANCES

- CONCRETE COAT meets the bond strength requirements of ASTM C-1059-86, Standard Specification for Latex Agents for Bonding Fresh to Hardened Concrete, Type II.

PACKAGING / YIELD

CONCRETE COAT is packaged in units containing 61 lb (28kg) of CONCRETE COAT POWDER and 1 gal (3.8 liter) of CONCRETE COAT LIQUID and yields 0.50 ft^3 (0.014m^3) 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 CONCRETE COAT will cover 12 ft^2 (1.1 m^2) when placed at an average depth of 1/2" (12.7 mm).

A unit of material may be extended with 25 lb (11.3 kg) of 3/8" (9.5 mm) pea gravel. This will yield 0.65ft^3 (0.018 m^3) and may be used for overlay placements that exceed 2" (50.8 mm) in depth. Up to 40lb (18.1 kg) of pea gravel may be added per kit for filling deep patches.

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	6,000 psi (41 MPa)
28 days	7,200 psi (50 MPa)

Flexural Strength: ASTM C-78
28 days 1,700 psi (12 MPa)

Bond Strength: ASTM C-1042
14 days 1,600 psi (11 MPa)

Unit Weight: ASTM C-138
130 lb/ft^3 (2083 kg/m^3)

Appearance-CONCRETE COAT is a free flowing powder designed to be mixed with a white latex liquid (CONCRETE 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 CONCRETE 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 scabbler, 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.

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. Chip the edge with a hand held chipping hammer to provide the wedge shaped notch. Moving joints as in the case of expansion joints should be brought up through the repair by sawcutting or with the use of a divider strip.

Exposed Reinforcement Steel-Exposed rebar may be treated with an anti-corrosion coating such as CORR-BOND or EUCO #452 LV epoxy. Remove all loose rust and scaling, preferably by sandblasting to white metal prior to coating the rebar.

Bonding-After the surface has been prepared, prime all areas with either a bond coat of CONCRETE COAT or a bonding agent such as CORR-BOND or EUCO #452 EPOXY.

Bond Coat-Mix CONCRETE COAT as instructed but add an additional 1-2 pints (0.47-0.95 liter) of water per unit to the mix. Broom the bond coat on to the prepared and pre-dampened concrete. Apply the CONCRETE 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 CONCRETE 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^{O}F (16^{O}C) - 90^{O}F (32^{O}C). Add the appropriate amount of CONCRETE COAT LIQUID for the batch size and then add the dry product. Mix a minimum of 3 minutes. Add pea gravel (if appropriate) and mix an additional 2 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.

On large floor areas, use screed strips as guides in combination with vibratory screeding to level. 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 CONCRETE COAT LIQUID or EUCO-BAR finishing aid.

Curing and Sealing-Proper curing procedures are important to ensure the durability and quality of the repair. To prevent surface cracking, cure the floor with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX. Do not use a solvent based curing compound 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.

CLEAN-UP

Clean tools and equipment with water before the material hardens.

Shelf life is 2 years in original, unopened package.

PRECAUTIONS / LIMITATIONS

- Do not use material at temperatures below 45^{O}F (7^{O}C).
- No heavy traffic until the product has cured.
- Store in dry place above freezing.
- Keep liquid and powder off of skin and out of eyes.
- Wear protective clothing and eyewear.
- Keep repair from freezing until a minimum strength of 1000 psi (7 MPa) is reached.
- Do not use a solvent based curing compound on this product.

Form Concrete Coat-6.97