

EMACO® P-24

Water-based epoxy/cementitious bonding agent and rebar coating

DESCRIPTION:

EMACO® P-24 water-based epoxy/cementitious bonding agent is used for bonding concrete and mortar up to twenty-four hours after application. EMACO P-24 is also used as a rebar coating.

RECOMMENDED FOR:

- Bonding plastic concrete to hardened concrete.
- Coating steel rebar to protect against corrosion.
- Areas where traditional epoxy bonding agents cannot be used due to short open times.

FEATURES/BENEFITS:

- Twenty-four hour window for topping application
- VOC compliant
- Contains a corrosion inhibitor
- High alkalinity similar to concrete
- Convenient to use epoxy – 1:1 volume
- Easy application
- Allows flexibility forming and pouring procedures
- Blue coloring makes it easy to determine coverage

PACKAGING/ESTIMATING:

EMACO P-24 bonding agent is a three part system consisting of:

- Part A - 0.75 gal (2.8 L), epoxy resin
- Part B - 0.75 gal (2.8 L), epoxy hardener
- Part C - 55 lb (25 kg), cementitious component

One unit of EMACO P-24 bonding agent will yield 3.9 gal (14.8 L). The coverage is 80 ft²/gal (2.0 m²/L) at a thickness of 20 mils (0.5 mm).

PERFORMANCE DATA:

Shelf Life: One year in original container

Storage: Dry at 40 to 95 °F (5 to 35 °C).
If Part A or Part B freeze, discard both

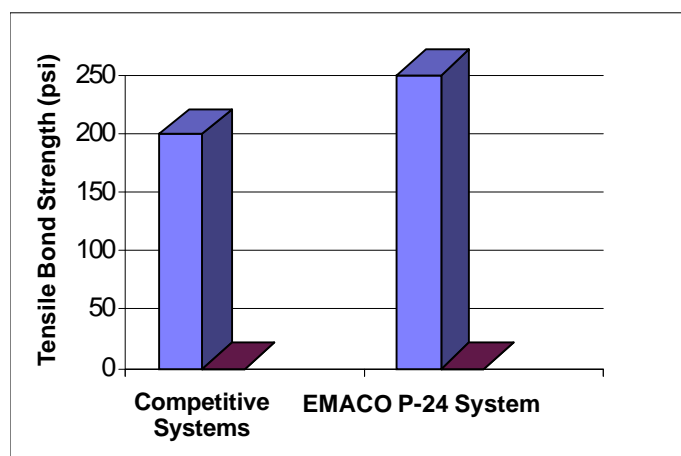
Pot Life: 90 minutes at 72 °F (22 °C)

Compressive Strength, 28 days:
(ASTM C 109) 8,000 psi (55.2 MPa)

Flexural Strength, 28 days:
(ASTM C 348) 1,000 psi (6.9 MPa)

TENSILE BOND STRENGTH:

According to ACI 503R* @ 28 Days,
12 Hour Topping Application



* Modified

TOPPING

APPLICATION

TIME

**Tensile Bond Strength,
14 days:**

(ASTM 503R*)

2 hr	>200 psi (1.4 MPa)
9 hr	>200 psi (1.4 MPa)
24 hr	>200 psi (1.4 MPa)

**Slant Shear Bond,
14 days:**

(ASTM 882)

2 hr	>3,000 psi (20.7 MPa)
9 hr	>2,500 psi (17.2 MPa)
24 hr	>2,000 psi (13.7 MPa)

Splitting Tensile, 28 days:
(ASTM C 496)

1,000 psi (6.9 MPa)

SURFACE PREPARATION:

To achieve proper bond, the surface must be prepared by sandblasting to reveal clean and sound bonding surface. The surface should be saturated-surface-dry (SSD) without any standing water.

MIXING:

Pour contents of Part A and Part B into a clean mixing bucket and blend the two components for two minutes. Slowly add Part C until all the material is in the bucket. **Never add water.** A jiffier paddle and a drill should be used to properly mix the product.

NOTE: The entire unit should be mixed.

APPLICATION:

Apply with a steel trowel, stiff bristle broom or by spraying. With any method, be sure to work the bonding agent thoroughly into the substrate. Appropriate thickness is 20 mils (0.5 mm) when used as a bonding agent. When used for reinforcement protection, the minimum thickness is 20 mils (0.5 mm) (2 coats of 10 mils {0.25 mm} each).

Keep bonding agent protected when application time is extended.

LIMITATIONS:

Substrate and ambient temperature with a minimum of 40 °F (5 °C) and a maximum of 95 °F (35 °C).

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