

DOT/Infrastructure



SPECCHEM
Solution to Service



DOT/Infrastructure

Curing Compounds

SpecCity White

White pigmented, water-based curing compound

A white pigmented concrete curing compound. When properly applied, forms a continuous membrane that controls curing for strong and durable concrete.

Pave Cure WW

Water-based, white pigmented membrane curing compound that is DOT compliant

A high solids water-based white pigmented concrete curing compound. When properly applied, forms a continuous membrane that controls curing for strong and durable concrete.

Pave Cure Rez White

White pigmented, water-emulsified resin-based curing compound

A high solids water-based, resin-based white pigmented concrete curing compound. When properly applied, forms a continuous membrane that controls curing for strong and durable concrete.

SpecFilm

Ready to use evaporation retardant/finishing aid

Designed to be used as an evaporation retardant and finishing aid on concrete flatwork of all types.

Epoxies

SpecPoxy 1000

ASTM 881 compliant hi-mod, low viscosity epoxy

A two-component, low viscosity, moisture insensitive, high modulus, structural epoxy bonding adhesive and crack injection resin. ASTM C-881, Type I, II, IV, and V, Grade 1, Classes B & C.

SpecPoxy 2000

ASTM 881 compliant hi-mod, medium viscosity epoxy

A two-component, multi-purpose, high modulus, moisture tolerant epoxy bonding adhesive that meets the requirements of ASTM C-881, Type I, II, IV & V, Grade 2, classes B&C.

SpecPoxy 3000

ASTM 881 compliant hi-mod, gel viscosity epoxy

A two-component, moisture insensitive, high modulus, structural epoxy bonding gel. 100% solids, solvent free, low odor, high strength, and non-sag. ASTM C-881, Type I, II, IV, and V, Grade 3, Class C.

SpecPoxy 3000 FS

Fast setting ASTM 881 compliant hi-mod, gel viscosity epoxy

A two-component, moisture insensitive, high modulus, structural epoxy bonding gel. 100% solids, solvent free, low odor, high strength, and non-sag. ASTM C-881, Type I, II, IV, and V, Grade 3, Classes B & C.

Cementitious Repair

RepCon® 928

Rapid hardening, single component, fiber reinforced, structural repair mortar

A single component, polymer-modified, fiber reinforced, rapid setting concrete repair mortar for use on concrete floors, highway pavements, bridge decks and other applications requiring early resumption of traffic or use. ASTM C-928.

RepCon® 928 DBR

A rapid setting, high early strength concrete repair mortar concentrate, when mixed with stone, sand, and water is suitable for use on concrete floors, highway pavements, bridge decks and other applications requiring early resumption of traffic or use.



Curing Compounds

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White pigmented, water-emulsified resin-based curing compound

A high solids water-based, resin-based white pigmented concrete curing compound. When properly applied, forms a continuous membrane that controls curing for strong and durable concrete.

SpecFilm

Ready to use evaporation retardant/finishing aid

Designed to be used as an evaporation retardant and finishing aid on concrete flatwork of all types.

Application Procedures

- Water-based curing compounds should be thoroughly agitated prior to application. Do not mix with a high speed mixer.
- Most curing compounds will have to be removed prior to applying a sealer (acrylic, urethane, etc.), hardener (sodium silicate type), water repellent (siloxane or silane type) or any other secondary coating or topping.
- The rate of dissipation for hydrocarbon resin-based curing compounds is dependant upon climatic conditions, the rate of application, and exposure to ultra-violet light. Under normal conditions, chemical and physical breakdown will start in 4-6 weeks. Typically, light abrasion along with low pressure water blasting is sufficient in cleaning resin curing compound residue.



**State approvals available upon request or
at www.specchemllc.com**

Epoxies

SpecPoxy 1000 GREEN CONSCIOUS

ASTM 881 compliant hi-mod, low viscosity epoxy

A two-component, low viscosity, moisture insensitive, high modulus, structural epoxy bonding adhesive and crack injection resin. ASTM C-881, Type I, II, IV, and V, Grade 1, Classes B & C.

SpecPoxy 2000 GREEN CONSCIOUS

ASTM 881 compliant hi-mod, medium viscosity epoxy

A two-component, multi-purpose, high modulus, moisture tolerant epoxy bonding adhesive that meets the requirements of ASTM C-881, Type I, II, IV & V, Grade 2, classes B&C.

SpecPoxy 3000 GREEN CONSCIOUS

ASTM 881 compliant hi-mod, gel viscosity epoxy

A two-component, moisture insensitive, high modulus, structural epoxy bonding gel. 100% solids, solvent free, low odor, high strength, and non-sag. ASTM C-881, Type I, II, IV, and V, Grade 3, Class C.

SpecPoxy 3000 FS GREEN CONSCIOUS

Fast setting ASTM 881 compliant hi-mod, gel viscosity epoxy

A two-component, moisture insensitive, high modulus, structural epoxy bonding gel. 100% solids, solvent free, low odor, high strength, and non-sag. ASTM C-881, Type I, II, IV, and V, Grade 3, Classes B & C.

Application Procedures

- Surface preparation is critical prior to applying epoxies. Surfaces to be bonded must be clean and structurally sound. Remove all oil, grease, dirt, laitance, curing compounds, and any other foreign matter. This includes bolts, rebar or threaded rod. All drilled holes must be cleaned out with a nylon brush. Remove dust and loose material. Use clean, oil free compressed air to blow out any remaining water, dust, or debris prior to application.
- Epoxies must be proportioned and mixed at the correct ratios. If the ratio is incorrect, performance of the cured epoxy may drop and/or the epoxy will not cure and set up.

- Thoroughly mix Part A and B separately. Then mix Part A and Part B together thoroughly for three minutes with a low speed motor using a Jiffy mixer or paddle. Mix only as much material as can be used within the pot life.
- When extending epoxy with aggregate always use clean, dry aggregate.
- Epoxies are very temperature dependent. High temperatures will accelerate set times and low temperatures will slow down set times.



Cementitious Repair



RepCon® 928 GREEN CONSCIOUS

Rapid hardening, single component, fiber reinforced, structural repair mortar

A single component, polymer-modified, fiber reinforced, rapid setting concrete repair mortar for use on concrete floors, highway pavements, bridge decks and other applications requiring early resumption of traffic or use. ASTM C-928.

RepCon® 928 DBR GREEN CONSCIOUS

A rapid setting, high early strength concrete repair mortar concentrate, when mixed with stone, sand, and water is suitable for use on concrete floors, highway pavements, bridge decks and other applications requiring early resumption of traffic or use.

Application Procedures

- Surface preparation is critical to any type of concrete repair. Prepare surface in accordance with ICRI Technical Guide No. 03730. It is more important to spend more time on surface preparation than on application of the repair mortar. Any structurally unsound concrete must be removed from the area to be repaired. Prepared surface must be dust-free and have sufficient profile to ensure adequate mechanical bond. If the concrete base for the repair material is sound, then all oil, curing compound, dirt, coatings or any other surface contamination must be removed.
- Products being applied in thicknesses greater than one inch, or where significant contamination exists require edge conditioning. Square cutting of the edges using a concrete saw is the most typical method. The smooth edge created by the saw cut should be roughened to ensure a mechanical bond at the edges.
- Protect area to be repaired from conditions that may cause early water loss; wind, low humidity, high temperature and direct sunlight.
- Set times will decrease as the product, air, substrate, and mixing liquid temperature increases and will increase as the temperature decreases.

- Do not bridge moving cracks. Maintain all existing joints or saw cut joint after application.
- Substrate must be saturated surface dry (SSD) and free of standing water.
- A bond coat slurry is recommended for achieving better bond with all repair materials. To achieve, mix a small amount of each batch mixed to a wetter consistency. Thoroughly scrub bond coat into the substrate with a clean, wet, stiff broom or brush immediately ahead of mortar placement. Do not allow bond coat to dry prior to placement of repair mortar.
- Make sure to follow all mixing instructions of the repair mortar. These will differ from product to product. Deviating on water to cement mix ratios can cause repair to delaminate prematurely or not fully cure.
- It is good concrete practice to cure all cement-based repair materials.

The application of an ASTM C-309 SpecChem curing compound is recommended.





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- ▶ Tilt Up Concrete Association
- ▶ Concrete Foundation Association
- ▶ The American Institute of Architects
- ▶ American Concrete Pavement Association
- ▶ American Society for Testing and Materials
- ▶ International Concrete Repair Institute

1511 Baltimore Ave, Suite 600
Kansas City, MO 64108
816.968.5600 | f. 816.561.4029
www.specchemllc.com



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