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east system[®]

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Technical bulletin

CIVIL ENGINEERING

1305

INJECTION SYSTEM

Description:

The 13050 is a two component, 100% solid, low viscosity epoxy system that cures at room temperature. Its low viscosity and penetration characteristics facilitate slow or fast injection, depending upon crack width, depth and temperature.

Uses:

Injection: Recommended for injection into non-moving, wet or dry cracks, fissures or voids in concrete or rock and other structural materials.

Mortar: Also recommended for repair and trowelled floor mortar when blended with 3 to 5 parts of oven-dry aggregate.

Typical uncured properties:

| Components | Mixing Ratio | | Specific Gravity | Viscosity | Packaging | | | Color |
|------------|----------------------|----------------------|------------------|-----------|--------------|--------------|--|-----------|
| | By weight # Parts | By volume # Parts | | | L. | | | |
| Resin | 100 | 100 | 1.14 | 450 - 500 | 7.56 | 20.00 | | Clear |
| Hardener | 33 | 40 | 0.93 | 50 - 100 | 3.78 | 10.00 | | Amber |
| Mix | | | 1.08 | 250 - 350 | 11.34 | 30.00 | | Light tan |

Gel time:

| Minutes | Temp. °C | Mass (gr.) |
|---------|----------|------------|
| 20 - 25 | 22 | 150 |

Coverage:

One (1) kg covers approximately 930 cm³ (56 in³).

Typical cured property:

Minimum cure schedule for 7 days @ 22°C (72°F).

| | |
|----------------------------|--------|
| Compressive strength, psi: | 11 600 |
| Flexural strength, psi: | 13 050 |

Pretreatment of surfaces:

Surfaces being bonded, repaired or covered must be dry, clean and sound. Use sandblasting, needle scalers, a powered grinding tool or scrapers to remove all traces of dirt, oil laitance, curing compound, mold release agent and disintegrated materials.

Mixing:

1. Mix 13050 resin only with 13050 hardener.
2. Do not use damaged or leaking containers.
3. Premix resin and hardener separately. Then place the hardener into the resin container according to the required mixing ratio.
4. Blend the hardener into the resin thoroughly using a paddle attached to a low speed heavy duty electric drill at 300-600 rpm. Continue to mix for a minimum of 3 minutes or until the mix becomes homogeneous.
5. Never dilute with solvents.

Cleaning of tools:

Tools and equipment should be cleaned immediately after use with Epoxy Tech's #17 solvent or with Epoxy Tech's "Clean tool" #4 for a safer use.

Storage:

Keep containers closed until just before use at a temperature above 15°C.

Caution:

Keep resin and hardener away from eyes and skin. Avoid breathing of vapors and use good ventilation. Like any reactive material, uncured resin and hardener may irritate sensitive skin. Wear protective clothing, goggles and gloves.

FIRST AID:**Eyes:**

Flush immediately with plenty of water for 15 minutes and obtain medical aid.

Skin:

Clean skin with warm water and a soft soap. Never use solvents to remove material from skin.

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NOTE:

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