

## TECHNICAL DATA SHEET

### CONFIX PSE

#### *Pile Splicing Epoxy*

#### PRODUCT DESCRIPTION

**CONFIX PSE** is a three-component, fast-setting epoxy resin formulation with high chemical and physical strength designed primarily for bonding concrete piles. The cured epoxy resin product provides high compressive and flexural strength to the joined when used with fine aggregates as filler.

#### CUSTOMER BENEFITS

- Excellent adhesion
- Fast setting
- High compressive and flexural strength

#### AREAS OF APPLICATION

- For bonding concrete piles

#### INSTRUCTION FOR USE

##### **SURFACE PREPARATION**

All surfaces to be bonded must be dry, firm, and free of oil, grease, rust, dust, and other contaminants. All laitance should be removed mechanically. The use of compressed air is highly recommended for cleaning the dowel holes to obtain a clean and structurally sound surface.

##### **MIXING**

Measure enough quantities of resin base, hardener, and filler to be used. Sand should always be dry, clean, and bagged. Mix thoroughly resin base with sand then add the hardener.

##### **PLACING**

Pour the mixture on the top surface of the lower pile and allow flowing into the dowel holes to avoid air entrapment. Lower the upper pile and check for the correctness of the position between the piles. Allow the epoxy mortar to cure.

##### **CLEANING**

Tools and equipment should be cleaned immediately with **EPOXY REDUCER** after use to remove excess resin and hardener. Cured epoxy can only be removed by mechanical grinding.

#### PHYSICAL PROPERTIES

|                                   |   |
|-----------------------------------|---|
| Mix Ratio                         | 4 parts resin base<br>1 part hardener<br>5 parts fine aggregates  |
| Viscosity @25°C                   | Resin Base : 4,900 cps<br>Hardener : 12 seconds #4 FC   |
| Specific Gravity, g/mL @25°C      | Resin Base : 1.14<br>Hardener : 0.95  |
| Pot life (with silica sand) @25°C | 7-13 minutes  |
| Initial cure time @25°C           | 20-25 minutes   |
| Full cure time @25°C              | 50-60 minutes   |
| Compressive strength (mortar)     | 5,000 – 6,000 psi, 30 mins curing<br>10,000 – 11,000 psi, 1½ hrs curing<br>11,000 – 13,000 psi, 4 days curing |
| Flexural strength                 | 5,000 psi   |
| Shear strength                    | 1,500 psi   |
| Hardness (Shore D)                | 85  |
| Heat resistance                   | Excellent   |
| Chemical resistance               | Excellent   |
| Toxicity                          | Non-toxic when fully cured  |
| Thinner                           | Not recommended   |

#### PACKAGING

**CONFIX PSE** is available in 8kg set.

#### COVERAGE

Recommended coverage:  
1.8 kg/m<sup>2</sup> at 1mm thickness

**Note:** The coverage rates provided above are for guidance purposes only. Actual usage may vary depending on the specific substrate conditions and application methods.

#### STORAGE AND HANDLING

**CONFIX PSE** has a shelf life of 36 months if maintained in dry storage conditions in unopened containers.

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### **PRECAUTIONS**

#### **HEALTH AND SAFETY**

Wear rubber or plastic gloves to avoid contact with skin.  
Use soap and water to remove the mixture from hands.  
Do not use strong solvents to remove the mixture from the skin.

**CONFIX PSE** is flammable.

Refer to the latest Safety Data Sheet (SDS) for comprehensive safety information on the proper handling of this product.

#### **WARRANTY AND DISCLAIMERS**

*The information provided in this technical data sheet is based on our best knowledge and testing methods. Any product use outside of specifications or improper storage or installation voids any warranty. Users are encouraged to conduct their own testing to assess product suitability. Always consult the product's safety data sheet (SDS) for safety guidelines and follow recommended precautions. We reserve the right to update this data sheet without notice, and users should ensure they have the latest information.*