

## Two-Component Epoxy Adhesive and Repair Mortar

### DESCRIPTION AND USES

- **SmartCare Epoxy Fix 565** is Two-component **epoxy** adhesive and repair mortar based on solvent free epoxy resin and special hardener and selected fillers.
- Bedding mortar and adhesive for Concrete elements, ceramic, steel, iron, Bricks, Masonry, wood and polyester.
- Filling crack, holes and voids in concrete.
- Anchorage of bolts and steel bars with concrete.
- Fixing the machines that is subjected shocks and vibrations and need high compressive strength.
- General purpose horizontal bedding mortar and adhesive.

### ADVANTAGES

- Harding without shrinkage.
- High mechanical strengths.
- Good chemical resistance.
- Very good adhesion to most construction materials.
- Easy to mix and apply.

### PRODUCT PROPERTIES

|                                   |                                                                                     |
|-----------------------------------|-------------------------------------------------------------------------------------|
| Color                             | Component A: Gray<br>Component B: Yellowish transparent<br>Mixed A+B: concrete gray |
| Solid content                     | 100 %                                                                               |
| Pot life                          | 45 Mints.                                                                           |
| Compressive strength (ASTM C 579) | ≥ 80 N/mm <sup>2</sup>                                                              |
| Flexural strength ( ASTM C 580 )  | ≥ 50 N/mm <sup>2</sup>                                                              |
| Mix ratio                         | 96.5 A: 3.5 B                                                                       |
| Bond Strength (ISO 4624)          | 1.87 N/mm <sup>2</sup> ( concrete failure)                                          |
| Density of Mixing                 | 1.8 gm/cm <sup>3</sup>                                                              |

### INSTRUCTIONS FOR USE

#### 1. Surface preparation:

- Surface must be clean and free from dust, contaminates all loosely adhering particles.
- Concrete must be at 28 days old to avoid shrinkage and excess humidity.

#### 2. Mixing:

- Mix components (A+B) together for at least 2 minutes with a mixing paddle attached to a slow speed electric drill (max. 600 R.P.M.) until the material becomes smooth in consistency and homogenous.

#### 3. Application:

- For anchoring : drill holes of rode by 3 – 5 mm more than diameter of rode and depth from 10 – 20 cm, fill the hole by mortar, tamp well and fix the rode in required position until drying of mortar.
- For Adhesive: apply by trowel, spatula knife or by glove-protected hand. Fill all gaps well.

### STORAGE CONDITION

- In places where high heat and humidity are present, special precautions must be taken.
- Store product in a covered, well ventilated warehouse and avoid excessive heat conditions.
- Storage in high heat, high humidity condition may reduce shelf life by around 30%.
- Follow First in First Out strictly.
- Don't store within one meter of roofing of the ware house or storage building.

### SHELF LIFE

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

### SAFETY PRECAUTIONS

- Avoid contact with the skin and eyes. Wear suitable protective clothing such as overalls, goggles, dust masks and gloves. Use a barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do no breathe vapor or spray.
- This product is flammable. Keep away from sources of ignition. Do not smoke. Take precautionary measures against static discharge. In case of fire – blanket flames with foam, carbon dioxide or dry chemicals.
- Refer to MSDS for further information