

Two components solvent free epoxy resin for the impregnation of carbon, aramid and glass fibre textiles.

APPLICATION

Used for the impregnation of carbon, aramid and glass fibre textiles. Can be used during production or on the job site to form a composite material with high mechanical properties.

ADVANTAGES

- Can be used without a primer.
- Excellent impregnation of the textile.
- High glass transition temperature (T_g).
- No shrinkage.
- Easy application.

COMPOSITION

The CARBOTEX IMPREG SYSTEM is 2 components solvent free epoxy system (resin and hardener).

APPLICATION PRESCRIPTIONS

- **Surface preparation**
 - Roughen the surface by e.g. sanding.
 - Remove all surface defaults and inequalities and repair all damaged concrete (cracks, surface defaults,..) with an epoxy mortar (EPOX-MORTAR or REPAR FAST).
 - Remove all dust, oil and grease.
 - Min. age of the concrete: 28 days.
 - Repair all cracks with EPOXINJECT.
 - Smoothen all inequalities.
 - Round off the angles of beams, colons or pillars.
- **Mixing instructions**

Mix the pre-dosed A and B components in a clean bucket until a uniform mass is obtained. Use this mixture within a span of 30 min. (potlife). When the temperature is >20 °C, the potlife is shorter.
- **Application**
 - Apply a first layer of resin with a roller or brush.
 - Position the textile in the resin and press well using a disc roller.
 - Make sure all air-inclusions are removed.
 - Apply a second layer of resin on the textile and make sure the textile is well saturated.

TECHNICAL DATA

Viscosity of the mixture	± 320 mPa.s
Potlife	± 30 min. (20 °C)
Density	1,1 kg/l
Tensile strength	60 N/mm ²
Compression strength	90 N/mm ²
Flexural strength	90 N/mm ²
Elasticity modulus	3000 – 3500 N/mm ²
Mixture	A comp 2,35 kg / B comp 0,65 kg
Adhesion	> 3 N/mm ² (fracture in the concrete)

USAGE

The average consumption is as follows:

- UD 200: around 600 g/m²
- UD 300: around 800 g/m²
- UD 450: around 1000 g/m²
- UD 530: around 1100 g/m²
- UD 600: around 1200 g/m²

PACKAGING

Standard packing: 3 kg sets.

- A component: 2,35 kg
- B component: 0,65 kg

STORAGE

Storage in a dry and fresh place min. 2 years in the original, unopened packing.

SAFETY AND HEALTH PRECAUTIONS

Avoid breathing dust/fume/gas/mist/vapours/spray. Wear protective gloves/clothing, eye protection and face protection. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water/shower. For more information, consult the safety data sheet.

CARBOSTRIP SYSTEM (OVERVIEW)

CARBOTEX IMPREG is part of the complete range products in the CARBOSTRIP system:

- **CARBOTEX UD**
Carbon fibre textile for structural strengthening.
- **CARBOSTRIP UNI**
Unidirectional carbon fibre laminates.
- **CARBOSTRIP ADHESIVE**
Epoxy glue for carbon fibre laminates. (CARBOSTRIP).
- **EPOXPRIM**
Epoxy primer for the preparation of the concrete when using EPOXMORTAR.
- **EPOXMORTAR**
Epoxy mortar for concrete repair.
- **EPOXINJECT**
Epoxy resin for structural repair of concrete by injection.