

PRODUCT DATA SHEET

POWER CF-300



Impregnation Epoxy Adhesive for Carbon-Fibre Wrappings & Fibre Laminates / Coatings

Product Description Solvent free, thixotropic 2-component impregnation Epoxy resin base. It is used for fixing CFRP wraps & as epoxy adhesive for fibre applications.

Advantages

- Non-sag behaviour on vertical and overhead Surfaces
- Good mechanical strengths
- Easy application by trowel and impregnation roller
- Solvent free

Technical Data

Colour Comp. A: transparent
Comp. B: transparent

Mix ratio A-component: B-component = 2:1 by weight

Physical Data

Density (20°C) 1.31 Kg/Lit. (comp. A+ B mixed)

Pot life (600 ml) 15°C: 90 min. (5 Kg mixture)
35°C: 30 min. (5 Kg mixture)

Open time (23°C) 35°C: 30 min.

Viscosity Pasty, does not flow.

Application Temperature Substrate and ambient temperature: +15°C to 35°C.

Tensile Strength (DIN 53452) Curing: 7 days, 23°C: 30 N/mm²



Shelf Life At least 12 months from date of production if stored in unopened original containers at temperatures between + 5°C and 35°C.

Packaging 6 Kg units (A + B).

Application

Substrate preparation

- Preparation of substrate by sandblasting or grinding, followed by industrial vacuum cleaner to remove all loose particles and dust. Substrate must be dry, clean, free from oil and grease (max. substrate moisture content 4%).
- Concrete should at least be 28 days old. Areas to be covered by **Power CF-300** must be level
- The pull out tensile strength of the substrate to be reinforced must be at least 1.0 N/mm².
- Structural corners must be rounded to a radius of at least 10 mm. This can be achieved using a diamond grinding disk.

Mixing

First, mix the material in each container separately. Then add component B to component A. Stir with an electric mixer for approx. 3 minutes until all the coloured streaks have disappeared. Then, pour the whole mix into a clean container and stir again for approx. 1 minute at low speed to keep air entrainment at a minimum. Potlife starts with the mixing of both components (resin and hardener). The higher the quantity of material mixed, the shorter the potlife. To achieve a longer potlife at high temperatures, both components may be cooled before mixing

Application

- Apply the mixed resin **Power CF-300** to the prepared substrate using a trowel or brush at a quantity of approx 0.7 to 1.2 Kg/m², depending on roughness of substrate.
- Place the fabric, previously cut to size, onto the resin coating in the required direction. Carefully work the fabric into the resin with a roller until the resin is squeezed out between the rovings.
- First apply a primer coat of epoxy components A + B while using fibres before applying the second coat to fully cover the fibres.

Cleaning Clean all tools immediately after use. Cured **Power CF-300** can only be mechanically removed.

Safety Instructions

Safety Precautions Wear protective clothing (gloves, glasses). In contact with eyes or mucous membrane, rinse thoroughly with clean, warm water and seek medical help.

Ecology Do not dispose of into water or soil in liquid form.

Toxicity Non-toxic.

