

CEMPROTEC CLUTCH FILLER

Sealing of Interlocks between Piles

USES

CEMPROTEC CLUTCH FILLER is a uniquely formulated cementitious material for sealing the surface gap at the interlock or clutch between piles prior to the application of a Flexcrete cementitious anti-corrosion coating.

ADVANTAGES

- Materials are pre-packaged in a convenient and easy to handle size, requiring only mixing on site.
- A unique blend of surfactants enables easy application with a pointing gun. Gel structure breaks down under shear to ensure complete filling.
- Excellent adhesion to steel. Tolerant to lower levels of steel preparation, including chloride contamination.
- Self-priming, hydrates to provide an alkaline environment which chemically reacts with the substrate to accelerate the re-passivation of steel.
- Water-based product which cures without the release of hazardous solvents. Equipment easily cleaned with water.

PRODUCT DESCRIPTION

CEMPROTEC CLUTCH FILLER is a two component, water based, epoxy and cementitious modified polymer mortar for sealing the interlock or clutch between sheet piles. It incorporates advanced cement chemistry, microsilica, fibre, epoxy and styrene acrylic copolymer technology to provide multi-functional protection with enhanced chemical resistance. When mixed, it can be applied with a pointing gun exhibiting a high degree of thixotropy to enable ease of application and filling of the void without sagging. It is specially formulated to chemically accelerate the passivation of ferrous metals even in the presence of chlorides and give maximum adhesion to steel.

APPLICATION DATA

Application Guide available on request.

PREPARATION

The areas to be treated must be free from all unsound material, i.e. dust, oil grease, corrosion by-products and organic growth. Smooth surfaces should be roughened and all loose rust and mill scale removed using blast cleaning techniques. Steel should be cleaned back to bright metal, ideally to Sa2½ as defined in BS 7079: Part A1/ISO 8501 (Swedish Standard SIS-05-59-00) although lower forms of preparation are acceptable providing all loose oxides are removed. Arrises and welds should be ground to remove sharp edges.

All water infiltration through the clutch must be arrested using **FASTFILL WP**, as described on the individual technical data sheet.

PRIMING

CEMPROTEC CLUTCH FILLER is self-priming and requires direct contact with the steel to afford maximum corrosion protection. Please contact our Technical Department for further advice.

MIXING

Shake Part A (liquid) and pour into a suitable mixing vessel. Slowly add the Part B (powder) and mix for a minimum of 5 minutes until homogeneous. The modules must be mechanically mixed using a drill and paddle specially designed to entrap as little air as possible. Bottles of liquid and bags of powder are **not** to be split.

TECHNICAL DATA

Basis:	Cement and epoxy modified, styrene acrylic copolymer
Mixed Colour:	Grey
Mixed Density:	1900 kg/m ³
Min Application Temperature:	5°C
Max Application Temperature:	35°C
Working Life (Approx):	30 minutes at 20°C

MECHANICAL CHARACTERISTICS (TYPICAL)

Compressive Strength:	BS 4551 Tested at 20°C
1 day	21 MPa
7 days	45 MPa
28 days	50.5 MPa
Flexural Strength:	BS 4551 Tested at 20°C
28 days	12.5 MPa
Adhesive Strength:	
28 days	3 MPa (steel)

PLACING

CEMPROTEC CLUTCH FILLER can be easily applied using a hand held pointing gun or pressure pointing equipment. To optimise the filling of the joint we recommend that it is filled from the bottom of the joint. Once the material has structured, typically a maximum of 10 minutes, excess material can be removed and the surface smoothed.

Carefully check on completion for voids and misses and spot treat where necessary. Allow to cure for a minimum of 1 hour before overcoating with **CEMPROTEC E942**.

CURING AND OVERCOATING

It is important that the surface of the mortar is protected from strong sunlight and drying winds. When not overcoating within the same tidal window, allow to cure for a minimum of 1 hour before immersion, and in extreme conditions use **FLEXCRETE CURING MEMBRANE WB**. Allow to cure overnight and wash down all surfaces with sweet water prior to the application of **CEMPROTEC E942**.

CLEANING

All tools should be cleaned with water immediately after use.

SHELF LIFE

12 months in dry, frost free conditions with unopened containers stored at moderate temperatures not greater than 25°C.

PACKAGING AND COVERAGE

Pack Size: 16.5kg
Yield: 8.5 litres per 16.5kg pack
Coverage: 1.9 kg/mm/m²
Each 16.5kg composite pack will treat 85 linear metres of 10 x 10mm joint.

SAFETY DATA

Safety Data Sheet available on request.



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