

Manapar C301

Chemical Construction System

Technical data sheet



MOHANDESI MAVAD ALI ALBORZ

Product Description:

Manapar C301 is a two component, solvent free, moisture tolerant, epoxy paste, Manapar C301 complies with ASTM C880. Manapar C301 is a general propose epoxy paste system.

Application:

- Installing FRP strips (laminates) on concrete substrates in strengthening systems
- Installing FRP strips (laminates) on wood, Steel, Aluminium and other metallic substrates
- Installing steel strips on concrete substrates in strengthening systems
- Implantation of anchor bolts in a dry place.
- Anchoring Dowels and rebars
- Bonding load bearing objects on steel, concrete, masonry, wood, stone, FCB, etc.

Properties:

- Excellent adhesion to concrete
- Excellent early and final mechanical strengths
- Good wetting properties on concrete and Steel
- Easy to use and low odour
- Can be drilled and grinded when cured
- Suitable for use in vertical and horizontal applications.
- Non flowing paste and ease of application.

Physical & mechanical properties:

Description	Value	Description	Value
Color of component A	Light gray	Bonding strength	~2 MPa (concrete failed)
Color of component B	Pale gray	Compressive strength	Min 60 MPa
Mixing ratio by weight	A:B 100:40	Pot life	30-45 min
Density (gr/m ²)	1/45-1/75	Cured time	60-90
Full cured time	10 days		

Supplementary notes:

- Substrate must be sound and free of loose particles. Remove dust, laitance, oil, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Surface can be prepared by blasting methods, grinding or chipping. Substrate must be dry with no standing water.
- The substrate should be clean and apply mixed paste on a dry and dust free surface, use solvent such as acetone for cleaning.
- Do not apply Manapar C301 below 5 °C.
- Thinning agent will change mechanical properties such as pull off, lab shear and tensile strength.