

# Cipbond 100

Adhesives

**Cipbond 100** is a **two component, cold curing, solvent free, epoxy based adhesive** for bonding segmented concrete bridges and structures, which provides structural and water resistant joints. Cipbond 100 can also be used for pointing masonry joints to retain structural integrity. Cipbond 100 meets FIP specifications.

## Features:

- Fast curing
- Higher mechanical strength than concrete
- Higher bond strength
- Non sagging
- Excellent adhesion to even damp surfaces.

## Directions to use

### Surface preparation:

Concrete should be clean, dry and sound. 28 days ambient cure is needed for concrete so that residual moisture content is within desirable limits. Surface etching is done by mechanical means so as to attain a surface profile of 150-200 microns.

### Application:

Cipbond 100 contains two components : resin and hardener. Both components are so viscous that the mixing should be done properly. A paddle type, slow speed mechanical stirrer is used for effective mixing. A uniform grey is to be obtained, which indicates thorough mixing of both the components. The mix is applied uniformly and evenly @ 2mm thickness to both surfaces to be bonded with a trowel. The adhesive applied components are immediately fixed firmly. Allow to cure at room temperature

### Curing schedule:

- At 30° C : 3-4 hours
- At 60° C : 1 hour

Typical mechanical properties:		
Bond strength	:	Concrete failure
Compressive strength (FIP 5.6)	:	1 day > 40 N / mm <sup>2</sup> 7 day > 75 N / mm <sup>2</sup>
Squeezability (FIP 5.4)	:	Meets the requirements
Tensile bending strength (FIP 5.14)	:	Concrete failure
Shear strength (FIP 5.15)	:	13 N/mm <sup>2</sup>

## TYPICAL PHYSICAL PROPERTIES

1. Type	Cold curing, epoxy amine cured.
2. Appearance :	
Resin	White
Hardener	Black
Mix	Grey
3. Mixing ratio	1 : 1 by weight
4. Specific gravity	
Resin	1.65 ± 0.03
Hardener	1.65 ± 0.03
5. Pot life	25 - 30 min. at 25° C
6. Shore D	80 ± 5
7. Clean up	PUT 502