

# CCI NEOBOND TPA 40

## Thixotropic Epoxy Adhesive for Expansion Joint Tape System

### Description

**CCI Neobond TPA 40** is a two component, solvent-free thixotropic epoxy resin adhesive consisting of light coloured base and dark hardener in pre-weighed quantities that gives visual evidence of proper mixing. It is mainly used to bond the TPE expansion joint tape to the concrete substrates.

### Primary Application

**CCI Neobond TPA 40** is used to bond CCI Neobond to the concrete substrate. The adhesive provides a shear load path between the concrete substrate and the expansion joint tape system. The typical application is to bond CCI Neobond tape to concrete substrates such as beams, columns, slabs etc., for expansion joint treatment.

### Features & Benefits

- ✓ Thixotropic consistency – suitable for horizontal, vertical, and overhead applications
- ✓ High adhesive strength
- ✓ Fast curing
- ✓ Can be applied on reasonably dry surfaces
- ✓ Excellent adhesion of CCI Neobond tape to the concrete substrate
- ✓ Wide range of temperature applications

### Technical Properties

<b>Appearance</b>	
Base	White
Hardener	Black
Mixed material	Grey
<b>Mixing Ratio</b> – Resin: Hardener	2: 1
Mix density, gm/cc	1.60 to 1.65
Pot life of mixed material, ASTM C881	30 minutes @ 30°C
<b>Minimum Compressive Strength</b>	
@ 24 hours	30 MPa
@ 7 days, ASTM D695	60 MPa
Slant shear bond strength @ 7 days, ASTM C 882	12 MPa
Adhesive bond strength	> 2 MPa
Tensile Strength @ 7 days, BS 6319 Part 7	23 MPa to 26 MPa

Glass transition temperature (Tg)	> 50°C
Shrinkage, ASTM D2566	Not more than 0.4%
Water absorption, ASTM D570	0.5% Maximum
Thixotropy (sag), mm in 10 minutes, at 30°C, ASTM C881	Not more than 30

### Method of Application

#### Surface Preparation

All the loose particles such as laitance, adherents, if any shall be removed by mechanical means such as scrubbing, wire brushing etc. Level the surface to a minimum width of 100 mm on both the sides of the expansion joint and any undulations, sharp edges on the surface shall be removed by grinding. The surface shall be blown off with compressed air to remove any dust, residual debris etc. Check for soundness of concrete in surrounding and adjacent area. If any distress features like honeycombs / cracks etc., are found, the same shall be treated with necessary remedial measures.

#### Mixing

The base and hardener shall be emptied into a suitable container and mixed with a paddle and slow speed heavy-duty drill, ensuring the sides are scraped down. A uniform grey colour should be obtained after mixing thoroughly. The mixing will generally take 3 minutes.

#### Application

Apply masking tape on both sides of the joint to avoid accidental application of **CCI Neobond TPA 40** in the undesired area. This will help earmark the adhesive application. The mixed adhesive is applied in two stages. In the first stage, the mixed adhesive is applied to a uniform minimum thickness of 2 mm on the surface which is covered by the lower flank of CCI Neobond tape. In the second stage, which is after the installation of Neobond (for further details refer CCI Neobond data sheet) the adhesive is applied on the surface area covered by the top flank (with perforations) of CCI Neobond tape.

### Packaging

CCI Neobond TPA 40 is supplied in a 6 kg combo pack.

### Consumption

Approximately 1.8 kg of CCI Neobond TPA 40 is required per m<sup>2</sup> area at 1 mm thickness. However, the coverage will depend upon the substrate condition and thickness of the material used.

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed containers. If stored at high temperature and/or high humidity conditions, the shelf life may be reduced.

### Fire

CCI Neobond TPA 40 is nonflammable.

### Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on [www.ccichemicals.in](http://www.ccichemicals.in) or contact us at [info@ccichemicals.in](mailto:info@ccichemicals.in).

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