

# Talrakepibond® SC

Thixotropic epoxy bonding glue for segmented construction and hardened concrete segments



The Construction Alchemists

## Description

Talrakepibond® SC thixotropic epoxy glue is a 2 pack solvent free epoxy bonding for precast match cast segments in segmental construction. The product is available in three variants:

- Talrakepibond® SC 20 - Fast set for application between 5°C to 20°C.
- Talrakepibond® SC 30 - Medium Fast set for application between 15°C to 30°C.
- Talrakepibond® SC 40 - Slow set for application between 25°C to 40°C.

## Features & Benefits

- Excellent joint - effective transfer of stresses across the bond line.
- No deformation under sustained loads.
- Curing time adjusted to ambient temperature.
- Tolerant to damp surfaces.
- Wide range temperature applications.
- Excellent squeezability
- Adequate working time.

## Primary Application

Bonding match cast concrete segments in the construction bridges with structural integrity and water proof joint

## Technical properties

Colour : Base - White  
Hardener - Black  
Mixed - Grey

Specific gravity at 30°C : 1.60 - 1.65

## Setting time characteristics

Product Properties	Talrakepibond® SC 20	Talrakepibond® SC 30	Talrakepibond® SC 40
Recommended application temperature	5°C - 20°C	15°C - 30°C	25°C - 40°C
Pot life (mins.)*	30 @ 20°C	30 @ 30°C	30 @ 40°C
Open time (mins.)	60 @ 20°C	60 @ 30°C	60 @ 40°C

\* for 100g of mixed material

## Mechanical Properties

**Squeezability :** Meets the requirement (FIP 5.4)

**Compressive Strength (FIP 5.6)**

Age	24hrs	7 days
Comp. strength (MPa)	40	75

## Application Instruction

### Surface Preparation

The segments to be bonded should be mechanically sound quality and the surface shall be free from contamination, such as free water, greasy material, laitance and dust. Grit blasting is recommended. Sections to be bonded should be checked for good alignment. The alignment of the segments should first be trailed without applying Talrakepibond® SC, in order to quickly align the segment, apply Talrakepibond® SC within its operating time.

### Application

Mechanical mixing is essential with a slow speed paddle drilling mixer. Mix the entire content of base and hardener containers together scrapping down the sides of the containers. Mix until a uniform grey colour is obtained. Ensure the mixed glue is applied to both surfaces of the segments to be bonded with a serrated trowel or other suitable spreader. The joint should be closed immediately, if this is not achieved the surface of the adhesive should be slightly scratched immediately prior to closing the joint to expose fresh adhesive. The joint must be closed within the open time of the adhesive. On site monitoring of the operation using lapped asbestos cement panels is recommended.

### Cleaning of Application Equipment

Tools and equipment should be cleaned soon after the application using a Talrak recommended solution.

## Estimating Packaging

Talrakepibond® SC is supplied in 3.1ltr pack.

## Coverage

≈ 1.55ltr/m<sup>2</sup> at 2mm thickness

## Storage

Talrakepibond® SC has a shelf life of 12 months if stored below 35°C in unopened containers.

## Precautions

### Health & Safety Instructions

Contact with the skin should be avoided as certain sensitive skins may be affected by contact. In such cases if contact occurs, the skin should be washed immediately with soap and water-not solvent. Gloves and barrier creams should be used when handling these products. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

Talrak



**Talrak Construction Chemicals Pvt. Ltd.**

An ISO 9001:2015 Certified Company

#### Works:

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#### Important note :

Talrak products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Talrak endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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