

## PRODUCT DATA SHEET

# Sikadur®-61 Epoxy PU Joint

2-Component flexibilized hybrid adhesive and joint sealing

## DESCRIPTION

Sikadur®-61 Epoxy PU Joint is a 2- part flexibilized hybrid adhesive and joint sealing with unique mechanical properties based on a mix of epoxy, PU and special fillers. It is ideal for sealing joints, movement joints, expansion joints and repairing cracks. It bonds to concrete, masonry, steel, precast concrete, fiber cement board, wood and other construction materials and it is elastic with high mechanical properties.

## USES

For interior and exterior used,

Structural adhesive for:

- Strengthening of masonry structures
- Bonding of concrete joints
- Bonding of concrete, steel and masonry substrates

Sealing joints for:

- Low Movement joints

Repairing cracks:

- Cracks on concrete or masonry substrates

## CHARACTERISTICS / ADVANTAGES

- Flexibility with high mechanical strength
- Excellent adhesion to most surfaces such as concrete, steel, masonry, precast concrete, fiber - wood cement board and other construction materials
- Vibration and impact resistant
- non water absorption
- Hardens without shrinkage
- Easy to mix and apply and no primer needed
- Different coloured components (for mixing control)
- Thixotropic: non-sag in vertical and overhead applications
- Green cleaning (Water cleanup formulation)

## PRODUCT INFORMATION

<b>Composition</b>	Epoxy modified polyurethane and special fillers
<b>Packaging</b>	1 kg / set (A + B)
<b>Shelf life</b>	12 months from date of production if stored properly in original and unopened, sealed and undamaged packaging.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +20 °C and +35 °C and protect from direct sun light.
<b>Colour</b>	(A) White (B) Black
<b>Density</b>	~ 1.40 - 1.50 kg / L (mixed A+B)

## TECHNICAL INFORMATION

Shore A hardness	≥ 90	(ASTM D2240)
Tensile strength	≥ 3.50 MPa @ 7 days	(ASTM D638)
Elongation	40% - 60% @ 7 days	(ASTM D638)
Tensile adhesion strength	≥ 3 MPa @ 7 days (on concrete slab) ≥ 4 MPa @ 7 days (on steel plate)	(ASTM D4541)

## APPLICATION INFORMATION

Mixing ratio	Component A : B = 2 : 1 by weight
Consumption	For joint sealing 6 m / 1 kg (dimension width 1 cm x Depth 1 cm)
Pot Life	~ 60 minutes
Gel time	~ 100 - 140 minutes

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- The mixed of material should be used within 60 minutes.
- Clean tools and equipment with warm water before the products dries. Hardened / cured material can only be mechanically removed.
- For exterior used, should have some covering or coating such as paint or skim coat to avoid material from direct sunlight.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All substrates must be sound, dry, clean and free from standing water, grease, oils, old surface, treatments or coatings. And all loose or friable particles must be removed.

### MIXING

Mix component A : B = 2 : 1 part by weight, mix thoroughly using either hand tools or low speed mixer (300 - 500 rpm). Mixed until to be homogeneous.

## APPLICATION

### Joint Sealing

1. For applications where joints are very deep, recommend to use backing rod prior to fill the Sikadur®-61 Epoxy PU Joint.
2. Apply Sikadur®-61 Epoxy PU Joint by trowel, spatula or sealant gun into the joints or the desired area.
3. Recommendation thickness (sealing depth) for gap < 3.5 cm = 5 mm and gap > 3.5 cm - 5 cm = 10 mm.
4. Allow a minimum of 24-48 hours setting time, before painting or applying a covering material.
5. Masking tape must be used where sharp exact joint lines or exceptionally neat lines are required. Remove the tape whilst the material is still soft (within 30 minutes)

### Crack Repairing

1. On both sides of crack, the side edges be slightly chiseled to give a V shape. If required do chiseling until a hard concrete is encountered.
2. Remove loose material from crack area and blow out the dust and debris from the gap of crack by using a compressor or air blower.
3. Apply Sikadur®-61 Epoxy PU Joint by trowel, spatula or sealant gun into the cracks line.
4. Allow a minimum of 24-48 hours setting time before painting or applying a covering material.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with clean water / warm water immediately after use. Hardened / cured material can only be mechanically removed.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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