

# High Performance Epoxy Bonding, Sealing, Grouting and Repair Mortars

## SIKADUR® Epoxy Resin Systems



# Multi-Purpose Epoxy Adhesive



## SikaDur<sup>®</sup>-31



### Description

**SikaDur<sup>®</sup>-31** is a 2-component multi-purpose Epoxy Adhesive Mortar.

### Uses

- ▲ **SikaDur<sup>®</sup>-31** will bond and fill virtually all mineral building materials; concrete, metals, slip bricks, stoneware and wood.
- ▲ **SikaDur<sup>®</sup>-31** can be used for concrete repairs, surface levelling, blow hole filling, crack filling and surface sealing.
- ▲ **SikaDur<sup>®</sup>-31** can be used for fixing dowel and starter bars and bolts.

### Advantages

- ▲ Solvent free yet easy to use and non-sag.
- ▲ High strength and excellent mechanical properties.
- ▲ Resists attack from a wide range of chemicals including solvents.
- ▲ Available in two grades: Normal and Rapid for application at 0°-30°C
- ▲ Can be applied to dry or damp substrates (no standing water).

- ▲ Can be applied at temperatures from 0° to 30°C.
- ▲ Can be used in contact with drinking water (WFBS No. 92 06505).

### Preparation & Application

#### 1 Surface preparation:

Contact areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper-like open surface.

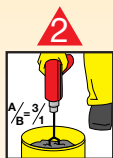
#### 2 Mixing:

Mix all of component B into component A using a low-speed drill and paddle until a uniform colour and consistency is obtained.

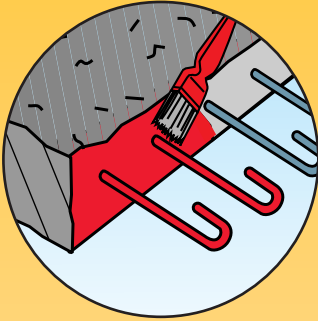
#### 3 Application:

Apply with a trowel, spatula, or stiff brush. Work well into damp substrates. Bond surfaces whilst **SikaDur<sup>®</sup>-31** is still "tacky".

4 **Cleaning:** Tools may be cleaned before product has started to harden, with **Sika<sup>®</sup> Thinner C**.



# Epoxy Bonding Agent



## SikaDur<sup>®</sup>-32



### Description

**SikaDur<sup>®</sup>-32** is a 2-component Epoxy Bonding Agent for use where strong or structural connections are required.

### Uses

- ▲ **SikaDur<sup>®</sup>-32** Will bond fresh concrete or mortar to hardened concrete or mortar with a strength greater than that of the concrete itself.
- ▲ **SikaDur<sup>®</sup>-32** Will bond fresh concrete and mortar to steel and other metals
- ▲ **SikaDur<sup>®</sup>-32** Will bond thin screeds and concrete repairs eliminating the possibility of debonding.
- ▲ **SikaDur<sup>®</sup>-32** Can be used as damp proof membrane (dpm) beneath polymer screeds.

### Advantages

- ▲ Provides far greater bond strength than any cementitious product.
- ▲ Solvent free and easy to apply.

- ▲ Can be applied on damp substrates (no standing water).
- ▲ Can be applied at temperatures down to 5°C.

### Preparation & Application

#### 1 Surface preparation:

Contact areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper-like open surface.

#### 2 Mixing:

Mix all of component B into component A using a low-speed drill and paddle until a uniform consistency is obtained.

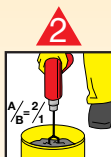
#### 3 Application:

Apply with brush or roller. Apply directly on the prepared surface.

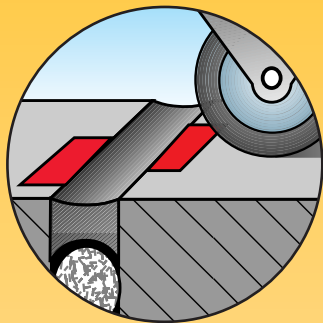
*Surface temperature:* min. +5°C

*Consumption:* 0.3 – 0,8 kg/m<sup>2</sup>

4 **Cleaning:** Tools may be cleaned before product has started to harden, with **Sika<sup>®</sup> Thinner C**.



# Heavy Duty Epoxy Mortars



## SikaDur<sup>®</sup>-41/ SikaDur<sup>®</sup>-43



### Description

**SikaDur<sup>®</sup>-41** and **SikaDur<sup>®</sup>-43** are both 3-component Heavy Duty Epoxy Mortars.

▲ **SikaDur<sup>®</sup>-41** is used for thickness from 5 to 25mm

▲ **SikaDur<sup>®</sup>-43** is used for thickness from 10 to 50mm

### Uses

▲ **SikaDur<sup>®</sup>-41** and **-43** can be used to form joint arises, nosings, and floors etc.

▲ **SikaDur<sup>®</sup>-41** and **-43** can be used to repair concrete, wood, stone, mortar, renders, steel etc.

▲ **SikaDur<sup>®</sup>-41** and **-43** can be used for structural repairs.

▲ **SikaDur<sup>®</sup>-41** and **-43** can be used as a bedding mortar for heavily loaded base and bearing plates.

### Advantages

▲ Can be used on dry or damp substrates (no standing water).

▲ Good chemical resistance.

▲ Excellent adhesion.

▲ High mechanical strengths.

▲ **SikaDur<sup>®</sup>-41** is available in two grades: Normal and Rapid.

▲ **SikaDur<sup>®</sup>-43** can be used in contact with drinking water (WFBS listing 920650).

### Preparation & application

#### ▲ Surface preparation:

Contact areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper-like open surface.

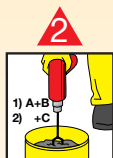
#### ▲ Mixing:

- 1) Mix all of component B into component A using a low-speed drill and paddle until a uniform consistency is obtained.
- 2) Add component C and mix again.

#### ▲ Application:

Apply with a trowel, spatula, etc.. Work well into damp substrates. *Surface temperature:* min. 0°-5° dependent on grade.

▲ **Cleaning:** Tools may be cleaned before product has started to harden, with **Sika<sup>®</sup> Thinner C**.



# Epoxy Pourable Grout



## SikaDur<sup>®</sup>-42



### Description

**SikaDur<sup>®</sup>-42** is a 3-component high strength pourable Epoxy Grout.

### Uses

- ▲ **SikaDur<sup>®</sup>-42** Can be used to grout under baseplates handrails, vehicular restraint barriers and machine bases.
- ▲ **SikaDur<sup>®</sup>-42** Can be used to grout and structurally bond dowels, bars and bolts.

### Advantages

- ▲ Solvent free and easy to apply as it flows freely.
- ▲ Does not shrink.
- ▲ Can be used on dry or damp substrates (no standing water).
- ▲ High mechanical strengths.
- ▲ Excellent adhesion.
- ▲ Good chemical resistance.

### Preparation & application

#### 1 Surface preparation:

Contact areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper - like open surface.

#### 2 Mixing:

- 1) Mix all of component B into component A using a low-speed drill and paddle until a uniform consistency is obtained.
- 2) Add component C and mix again.

#### 3 Application:

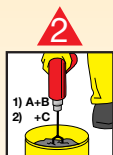
Pour the grout into the prepared area; increasing pressure will increase flow i.e. use a funnel if required.

*Surface temperature:*

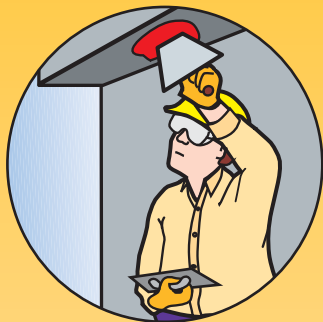
min. +5°C, max. +30°C

*Layer thickness:* max. 50 mm per application.

4 **Cleaning:** Tools may be cleaned before product has started to harden, with **Sika<sup>®</sup> Thinner C**.



# Epoxy Lightweight Repair Mortar



## SikaDur®-43HB



### Description

**SikaDur®-43HB** is a 3-component Lightweight Epoxy Patching Mortar. **SikaDur® 31** should be used as a primer.

### Uses

- ▲ **SikaDur®-43HB** can be used easily overhead and in vertical applications.
- ▲ **SikaDur®-43HB** can be used to repair concrete or timber beams.
- ▲ **SikaDur®-43HB** lightweight and good build with no slump can easily be achieved.

### Advantages

- ▲ Solvent free very workable and easy to use.
- ▲ Has good strength properties.
- ▲ Has good chemical resistance.
- ▲ Can be used in damp conditions.
- ▲ Can be applied from 5°C to 20°C.
- ▲ Very high yield.

### Preparation & application

#### 1 Surface preparation:

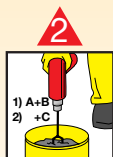
Contact areas must be prepared to remove all paint coatings, rust, cement laitance and other contaminants to leave a dust free sandpaper - like open surface.

#### 2 Mixing:

- 1) Mix all of component B into component A using a low-speed drill and paddle until a uniform consistency is obtained.
- 2) Add component C and mix again.

3 **Application:** Apply using a spatula, trowel or gloved hand.

4 **Cleaning:** Tools may be cleaned before product has started to harden, with **Sika® Thinner C**.



# Epoxy Injection Resin



## SikaDur<sup>®</sup>-52



### Description

**SikaDur<sup>®</sup>-52** is a 2- component low viscosity Epoxy Resin Injection System.

### Uses

- ▲ **SikaDur<sup>®</sup>-52** Can be used for injecting cracks in many mineral substrates; concrete, brickwork, mortar, ceramics, etc.
- ▲ **SikaDur<sup>®</sup>-52** Can be used for injecting voids in or under floor slabs and screeds.

### Advantages

- ▲ Does not shrink.
- ▲ Can be applied in damp conditions.
- ▲ Excellent adhesion to most mineral substrates.
- ▲ Good chemical resistance.
- ▲ High strength and mechanical properties.

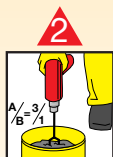
### Preparation & application

**1 Surface preparation:** Crack surfaces should be sealed, injection nipples fixed with **SikaDur<sup>®</sup>-31 Rapid** and allowed to harden (min. 4 hours)

**2 Mixing:** Mix component B into component A with a low speed drill and paddle thoroughly until a uniform translucent “straw” colour is achieved.

**3 Application:** Inject with the purpose made **Sika<sup>®</sup>** gun and hose connected to the fixed nipples

**4 Cleaning:** Tools may be cleaned before product has started to harden, with **Sika<sup>®</sup> Thinner C**.



# SikaDur<sup>®</sup> Epoxy Resin Systems



Dealer's stamp

Environmental



Protection



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Quality



Production