



SikaDur[®] 31SBA

Segmental Bridge Epoxy Adhesive

Technical Data Sheet

DESCRIPTION

SikaDur 31SBA is a two component, solvent free, cold cured thixotropic epoxy adhesive especially formulated for bonding prefabricated bridge segments.

ADVANTAGES

- * Available in 5 grades.
- * Temperature ranges 0°C - 60°C.
- * Easy to apply.
- * Hardening not affected by humidity.
- * Hardens without shrinkage.
- * High strength.
- * Excellent water resistance.
- * Non sag.
- * Colour coded components to ensure correct mixing.
- * Can be applied to damp substrates.
- * Lubricates surfaces and makes location of shear keys easier.
- * Solvent free.

Technical Data (typical)

Colour:	Grey (mixed) Base - white Hardener - black
Density:	1.7 - 2.1 kg/litre (depending on grade)
Application temperatures:	+0°C min - +60°C max (substrate and ambient) (depending on grade)
Layer thickness per application:	1.0 minimum 5.0 mm maximum
Thixotropy:	FIP 5.3. no sag flow at all temps
Squeezability:	FIP 5.4. meets the requirements.
Heat resistance:	FIP 5.10. meets the requirements.
Modulus of elasticity:	FIP 5.13. 8400 N/mm ² - 12100
Compressive strength:	FIP 5.12.. 60-85 N/mm ²
Shear strength:	FIP 5.15. 15 N/mm ²
Pot life:	FIP 5.1. 10 mins - 50 mins
Open time:	FIP 5.2. 30 mins - 90 mins

The above range of values are approximate and cover all the grades available. For more comprehensive technical information on each grade contact **Sika Ltd.**

SURFACE PREPARATION

Surfaces must be sound, clean, free from frost, oils, grease, standing water and all loosely adhering particles and other surface contaminants. Cement laitance must be removed to expose coarse and fine aggregate. Use grit/sand blasting.

MIXING

Stir component A prior to mixing (resin). The whole of component A (resin) should be mixed with the whole of component B (hardener) for a minimum of 2 minutes using a slow speed electric stirrer (300-600 rpm) and suitable spiral or paddle mixer until a uniform mix and colour is achieved.

APPLICATION

Apply directly to the prepared surfaces of the segments by trowel, spatular or gloved hand to the required layer thickness.

IMPORTANT CONSIDERATIONS

- * At higher temperatures pot life will be shortened.
- * At lower temperatures the material will become more difficult to apply and take longer to harden.
- * Wear suitable protective clothing, gloves and eye protection.
- * Do not add solvent to the mix.
- * **Thinner C** is flammable. **NO NAKED FLAMES**
- * Do not mix additional fillers and solvents.

CLEANING

All tools should be cleaned with **Thinner C** immediately after use. Hardened material must be removed mechanically.

PACKAGING

Refer to latest price list.

CONSUMPTION

1.7 - 2.1 kg/m² @ 1.0 mm thickness
(depending on grade)

3.4 - 4.2 kg/m² @ 2.0 mm thickness

Excluding allowances for loss wastage surface profile and porosity.

STORAGE AND SHELF LIFE

Minimum 12 months in sealed containers stored in dry warehouse conditions (+5°C - +25°C).



Handling Precautions

Sika products are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The materials must not, for instance, be allowed to come in contact with foodstuffs or food utensils and measures should also be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleaned at the end of each working period either by washing with soap and warm water or by using a resin-removing cream - the use of powerful solvents is to be avoided. Disposable paper towels - not cloth towels - should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water - consult a doctor immediately. Health and Safety information on Sika Products is available and we strongly advise that this is read prior to their use. Sika products are for professional use and should be stored in sealed containers away from the reach of children.

Important Note

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 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 proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request.

Please consult our Technical Sales Department for further information

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