

PRODUCT DATA SHEET

Sikadur-Combiflex[®]-933

(formerly MSeal 933)

2-part epoxy adhesive for use with Sikadur-Combiflex[®]-930 bandage

PRODUCT DESCRIPTION

Sikadur-Combiflex[®]-933 is a 2-part structural epoxy adhesive for use in combination with Sikadur Combiflex-930[®] bandage in applications in contact with potable water.

USES

Adhesive for Sikadur[®] Combiflex-930[®] bandage and is suitable for use on a number of different substrates including concrete, brick, block and metals.

CHARACTERISTICS / ADVANTAGES

- 3 day return to service at ≥ 14 °C
- 10 day return to service at ≥ 7 °C
- Proven high performance
- Regulation 31 approved for contact with potable water
- Can be applied in damp conditions
- Suitable for horizontal and vertical joints/cracks
- Low adhesive consumption

PRODUCT INFORMATION

Chemical Base	2-part epoxy
Packaging	5 kg pack
Colour	Grey
Shelf Life	12 months
Storage Conditions	Store in unopened, original packaging, protected from moisture and direct sunlight.
Density	1.4 kg/L

APPROVALS / STANDARDS

- Approved for use in contact with potable water under:
- Regulation 31(4) (a) of the water supply (water quality) regulation 2016 for England and 2018 for Wales.
 - Approved by Energy and Climate Change Directorate Drinking Water Quality Division, under Water Supply (Water Quality) (Scotland) Regulations 2014, 33(3)(a).
 - Approved by the Department of Agriculture, Environment and Rural Affairs under Regulation 30 of the Water Supply (Water Quality) Regulations (Northern Ireland) 2017.

IMPORTANT NOTE

Specific instructions for use (IFU) for potable water applications must be followed and are available upon request. For all other applications follow the guidance within this technical data sheet.

TECHNICAL INFORMATION

Tensile adhesion strength $\geq 3 \text{ N/mm}^2$

APPLICATION INFORMATION

Consumption	Bandage Width	Linear m per kg adhesive	Linear m per 5 kg pack adhesive	Adhesive kg per 1 m bandage
	100 mm	3.5-7.0	17.5-35.0	0.15-0.30
	150 mm	2.6-5.2	13.0-26.0	0.22-0.45
	200 mm	1.7-3.5	8.4-17.5	0.30-0.60
	400 mm	0.8-1.7	4.2-8.7	0.60-1.20

Layer Thickness	1-2 mm
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Ambient Air Temperature	$\geq 5 \text{ }^\circ\text{C}$
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Substrate Temperature	Do not apply to frozen substrates
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Pot Life	30 minutes at $20 \text{ }^\circ\text{C}$
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Curing Time	Full hardening of Sikadur-Combiflex®-933 adhesive is generally achieved after 2 to 3 days, dependent upon the ambient temperature. For information on return to service times for potable water applications please refer to Further Documentation.
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SYSTEM INFORMATION

System Structure For use with Sikadur Combiflex®-930 bandage

VALUE BASE

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

USES

Sikadur-Combiflex®-933 cannot be used on metal roofs, consult Sika Technical for further details.

FURTHER DOCUMENTS

For potable water applications, please refer to *Sikadur-Combiflex®-930 Joint Bandage with Sikadur-Combiflex®-933 Adhesive APPLICATION TO POTABLE WATER CONTACT AREAS INSTRUCTIONS FOR USE*

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete and masonry surfaces should be mechanically abraded to maximise adhesion. It is essential that all surfaces are clean, free from dust, oil, grease and any other contaminants that may affect the adhesion adversely. All metal surfaces should be abrasive blasted to SA2½. Prepare an area of substrate around the joint or crack allowing at least 25 mm to either side of the bandage to be applied. Joints or cracks in concrete, brick or block subject to active water ingress must be prepared and repaired with a suitable rapid setting Sika repair material. Damaged concrete should be repaired with a suitable Sika repair mortar. Allow time for the repair products to cure before proceeding to the next stage. Masking the crack or joint For cracks or joints of less than 25mm in width apply a 25mm wide masking tape. For designed joints of more than 25mm in width masking tape is not always required, in which case the Sikadur® Combiflex®-933 adhesive is applied up to the edge of the joint. In all cases the edges of the de-bonded area should be straight and parallel. Masking the outer edges of the crack or joint. Apply the masking tape to allow a minimum of 5 mm to either side of the Sikadur-Combiflex®-930 bandage.

MIXING

Use suitable paddle mixer in a slow speed drill to mix Sikadur-Combiflex®-933 Part B (hardener) for 30 seconds, before adding to Sikadur-Combiflex®-933 Part A (resin) and mix for a minimum of 2 minutes until a homogenous mixture of a uniform grey colour is achieved, which should happen within four minutes. Do not part mix; the materials have been correctly packaged to the proportions required. As with all epoxy resins, an exothermic reaction between the two components generates heat. It is essential, therefore, to use the mixed material as soon as possible.

CLEANING OF TOOLS

Immediately after use all tools and equipment can be cleaned using a suitable solvent as hardened adhesive can only be removed mechanically. Please note the solvent should not be used in a confined space or where spillages could come into contact with potable water. In reservoir applications, wipe with a clean, lint-free cloth and potable water only; repeat as necessary.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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Product Data Sheet
Sikadur-Combiflex®-933
March 2026, Version 01.01
020703000010002003

Sikadur-Combiflex-933-en-IE-(03-2026)-1-1.pdf