

Sikaflex®-298

Semi self levelling bedding compound for marine applications

Technical Product Data

Chemical base	1-C polyurethane
Colour (CQP ¹ 001-1)	Brown, black
Cure mechanism	Moisture curing
Density (uncured) (CQP 006-4)	1.2 kg/l approx.
Non-sag properties	Semi self levelling
Application temperature	5°C to 35°C
Tack-free time ² (CQP 019-1)	60 min. approx.
Curing speed (CQP 049-1)	see diagram
Shrinkage (CQP 014-1)	10% approx.
Shore A hardness (CQP 023-1 / ISO 868)	35 approx.
Tensile strength (CQP 036-1 / ISO 37)	1.0 N/mm ² approx.
Tensile lap shear strength (CQP 046-1 / ISO 4587)	1.0 N/mm ² approx.
Elongation at break (CQP 036-1 / ISO 37)	400% approx.
Tear propagation resistance (CQP 045-1 / ISO 34)	4 N/mm approx.
Glass transition temperature (CQP 509-1 / ISO 4663)	-45°C approx.
Service temperature (CQP 513-1)	permanent -50°C to 80°C
Shelf life (storage below 25°C) (CQP 016-1)	unipac 12 months pail 9 months

¹⁾ CQP = Corporate Quality Procedure

²⁾ 23°C (73°F) / 50% r.h.

Description

Sikaflex®-298 is a slightly thixotropic 1-c polyurethane adhesive and sealant which cures on exposure to atmospheric humidity to form a durable elastomer.

Sikaflex®-298 is manufactured in accordance with ISO 9001/14001 quality assurance system as well as with the Responsible Care Program and meets the regulations set out by the International Maritime Organization (IMO).

Product Benefits

- 1-C formulation
- Slightly thixotropic
- Elastic behaviour
- Contains no highly flammable solvents
- Sound deadening
- Long open time

Areas of Application

Sikaflex®-298 is suitable for bonding deck covering materials made from synthetic resins (except polyethylene and polypropylene), and for bedding-in and sealing of teak plank decking laid on top of the subdeck surface. Suitable substrates include GRP, marine plywood, steel, aluminum sealed with an anti-corrosion coating (epoxy or polyurethane-acrylic based) and stainless steel.

This product is suitable for professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.

Industry



Cure Mechanism

Sikaflex®-298 cures by reaction with atmospheric humidity, which may be drawn from the surrounding air, from porous substrates, or from spraying with a fine water mist (approx. 10 g of water per m² of bond face).

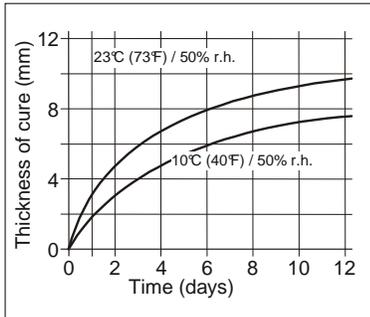


Diagram 1: Curing speed for Sikaflex®-298

Chemical Resistance

Sikaflex®-298 is resistant to fresh water, seawater, diluted acids and diluted caustic solutions.

Temporarily resistant to fuels, animal fats and oils.

Not resistant to organic acids and caustic solutions or paint thinners.

The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of Application

Surface preparation

Surfaces must be clean, dry and free from all traces of grease, oil and dust. As a rule surfaces must be prepared in accordance with the instructions given in the current edition of the Sika® Primer Chart for Marine Applications. Advice on specific applications is available from the Technical Service Department of Sika Industry.

Application

Unipac: Place the unipac in the application gun and snip off the closure clip. Cut off the tip of the nozzle to suit the application and apply the adhesive with a suitable hand-operated or compressed air gun.

Once opened, packs should be used up within a relatively short space of time.

Do not apply at temperatures below 10°C or above 35°C. The optimum temperature for substrate and adhesive is between 15°C and 25°C.

The adhesive should be applied over large surface areas with a notched spreader (notch depth approx. 3 mm). Coverage varies between 600 - 1200 ml per m². If the substrates to be bonded are impervious to moisture or if an accelerated rate of cure is required, the adhesive should be lightly sprayed with a water mist shortly before the substrates are brought together (use an aerosol spray or spray gun to apply approx. 10 g water per m²). Avoid air entrapment when making the bond or filling joints. Assure the complete filling of the space between the deck and the planks. Apply firm pressure when bringing components together and keep the joint under pressure for at least 3 hours until the adhesive has set. For advice on selecting and setting up a suitable pump system, as well as on the techniques of pump operated application, please contact the System Engineering Department of Sika Industry.

Removal

Uncured Sikaflex®-298 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material can only be removed mechanically.

Hands and exposed skin should be washed immediately using Sika® Handclean Towel or a suitable industrial hand cleaner and water. Do not use solvents!

Further Information

Copies of the following publications are available on request:

- Material Safety Data Sheets
- Sika Primer Chart
- General Guidelines Bonding and Sealing with Sikaflex® products

Packaging Information

Unipac	600 ml
Pail	10 l

Value Bases

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.

Health and Safety Information

For information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

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.

Further information available at:
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