

Sikaflex[®]-298

Self-levelling bedding compound for marine applications

Technical Product Data:

Chemical base	One-component polyurethane
Colour	Black, brown
Density (DIN 53479) (uncured)	1,4 kg/l approx.
Viscosity / Consistency	30 Pas / self-levelling
Cure mechanism	Moisture-curing
Tack-free time ¹⁾	90 min. approx.
Rate of cure ¹⁾	3 mm per 24 hrs.
Shrinkage (DIN 52451)	10% approx.
Shore A hardness (DIN 53505)	40 approx.
Tensile strength (DIN 53504)	1 N/mm ² approx.
Elongation at break (DIN 53504)	> 600%
Tear strength (DIN 53515)	> 6 N / mm
Application temperature	10°C to +35°C
Service temperature (continuous) short term (up to 4 hrs.)	-50°C to +80°C 100°C
Shelf life (stored below 25°C)	12 months for unipac 9 months for pail

¹⁾ at 23°C and 50% relative humidity

Description:

Sikaflex[®]-298 is a self-levelling one-component polyurethane adhesive and sealant which cures on exposure to atmospheric moisture to form a durable elastomer.

Sikaflex[®]-298 is manufactured in accordance with the ISO 9001/14001 quality assurance system and is specially developed for the marine industry and meets the regulations set out by the International Maritime Organisation (IMO).

Product benefits:

- One-component formulation
- Self-levelling
- Elastic
- Contains no highly inflammable solvents
- Sound deadening
- Long open time

Cure mechanism:

Sikaflex[®]-298 cures by reaction with atmospheric moisture, 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).

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 the deck surface. Suitable substrates include GRP, marine (WBP) plywood, steel and aluminium sealed with an anti-corrosion coating (epoxy or polyurethane-acrylic based) and stainless steel.

Sikaflex[®]-298 is also suitable for filling seams and lap joints as well as construction joints in floors. It is not suitable for caulking the joints between planks in traditional timber marine decking. For exterior sealing applications thin layers of Sikaflex[®]-298 must be shielded from sunlight (e.g. by the use of cover strips, overpainting, etc.).

Chemical resistance:

Sikaflex[®]-298 is resistant to fresh water, seawater, diluted acids and 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 upon request.

Method of application:

Surface preparation. Surfaces to be bonded must be clean, dry and free from all traces of grease, oil, wax and dust. As a rule the faces must be prepared in accordance with the instructions given in the current edition of the Sika® Primer Table for Marine Applications.

Application. 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 timeframe.

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. 4 mm). Coverage is around 1200 ml per m². When the substrate to be bonded are impervious to moisture or when 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. Apply firm pressure when bringing components together and keep the joint under pressure for at least 3 hours until the adhesive has set.

Overpainting. Sikaflex®-298 can be overpainted when tack-free. The paint must be tested for compatibility by carrying out preliminary testing. Baked enamels should not be applied to Sikaflex®-298 until the adhesive has attained full cure.

It should be understood that the hardness and film thickness of the paint may impair the elasticity of the adhesive and lead to cracking.

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

Hands and exposed skin should be washed immediately using a suitable industrial hand cleanser and water. Do not use solvents!

Further information:

Copies of the following publications are available on request:

- Sika® Marine Application Guide
- Sika® in Cruise and Ferry
- Sika® for strong bonds at the high seas
- Installation guide for deck caulking
- Primer Chart for Marine Applications
- Safety Data Sheet

Packaging information:

Unipac	600 ml
Pail	10 kg

Important:

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety-related data for this type of product.

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.



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