Industry

Sikaflex®-298

Slightly thixotropic bedding compound for marine applications

Technical Product Data

Chemical base	1-C polyurethane
Colour (CQP[1]001-1)	Brown
Cure mechanism	Humidity-curing
Density (uncured) (CQP006-4)	1.2 kg/l approx.
Non-sag properties	Slightly thixotropic
Application temperature	+10ºC to +35ºC
Skin time[2] (CQP019-1)	100 min. approx.
Curing speed (CQP049-1)	(see diagram)
Shrinkage (CQP014-1)	6% approx.
Shore A hardness (CQP023-1 / ISO 868)	30 approx.
Tensile strength (CQP036-1 / ISO 37)	1.2 N/mm^2 approx.
Elongation at break (CQP036-1 / ISO 37)	600% approx.
Tear propagation resistance (CQP045-1 / ISO 34)	4 N/mm approx.
Glass transition temperature (CQP509-1 / ISO 4663)	-45ºC approx.
Service temperature (CQP513-1) permanent	-40ºC to +90ºC
Shelf life (storage below 25°C) (CQP016-1)	12 months

[1] CQP = Corporate Quality Procedures [2] 23°C / 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 inflammable 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.

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 m^2 of bond face).

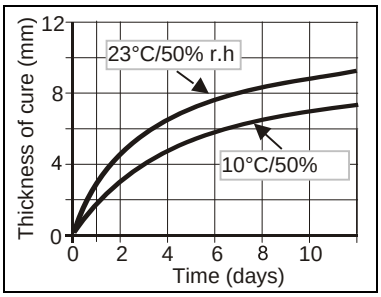

Diagram 1: Curing speed for Sikaflex®-298

Chemical Resistance

Sikaflex®-298 is resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, animal fats and oils; Sikaflex®-298 is 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

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. 5 mm). Coverage is approximately 1200 ml per m^2. 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 m^2). 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 can be removed from tools and equipment with Sika® Remover-208 or another suitable solvent. Once cured, the material only can 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
- General guidelines for bonding and sealing with Sikaflex® products.
- Marine Application Guide

Packaging Information

Unipac	600 ml

Important

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.

Note

Sika Australia Pty Limited **www.sika.com.au**
ABN: 12 001 342 329 Tel: 1300 22 33 48