BUILDING TRUST

PRODUCT DATA SHEET

Sikaflex®-508

Low emission multipurpose STP sealant

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Silane Terminated Polymer
Color (CQP001-1)		White, grey, black [A]
Cure mechanism		Moisture-curing
Density (uncured)		1.4 kg/l
Non-sag properties		Good
Application temperature	ambient	5 – 40 °C
Skin time (CQP019-1)		55 minutes [B]
Curing speed (CQP049-1)		(see diagram)
Shrinkage (CQP014-1)		1 %
Shore A hardness (CQP023-1 / ISO 48-4)		30
Tensile strength (CQP036-1 / ISO 527)		1.5 MPa
Elongation at break (CQP036-1 / ISO 527)		250 %
Tear propagation resistance (CQP045-1 / ISO 34)		4 N/mm
Service temperature (CQP513-1)		- 50 – 80 °C
Shelf life	Drum	9 months [C]
	Unipack	15 months [C]
	Cartridge	15 months [C]

CQP = Corporate Quality Procedure A) Other colors available on request B) 23°C / 50% r.h. C) Storage below 25°C

DESCRIPTION

Sikaflex®-508 is a low emission one-component isocyanate free sealant based on the Sika Silane Terminated Polymer (STP) technology which cures on exposure to atmospheric humidity.
Sikaflex®-508 meets the most severe environment, health and safety standards and sets a new benchmark in this technology.

PRODUCT BENEFITS

- Very low emission
- Compatible with foamed polysterene (XPS)
- Bonds well to a wide variety of substrates without the need for special pre-treatments
- Easy to process
- Low odor
- Isocyanate, phtalate, plasticizer, solvent and PVC free

AREAS OF APPLICATION

Sikaflex®-508 is a low modulus multipurpose sealant for internal and external applications. It adheres well to a wide variety of substrates and is especially compatible with foamed polystyrene foams (XPS).
Seek manufacturer's advice and perform tests on original substrates before using Sikaflex®-508 on materials prone to stress cracking.
This product is suitable for experienced professional users only. Tests with actual substrates and conditions have to be performed ensuring adhesion and material compatibility.

CURE MECHANISM

Sikaflex®-508 cures by reaction with atmospheric moisture. At low temperatures the water content of the air is generally lower and the curing reaction proceeds somewhat slower (see diagram 1).

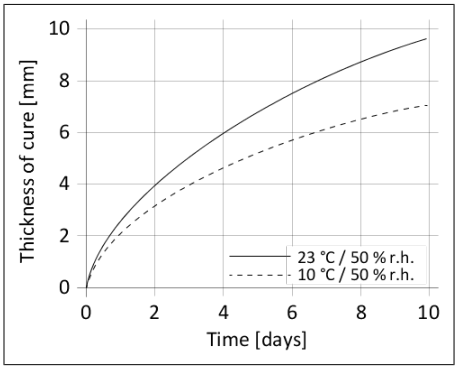

Diagram 1: Curing speed Sikaflex®-508

CHEMICAL RESISTANCE

Sikaflex®-508 is generally resistant to fresh water, seawater, diluted acids and diluted caustic solutions; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; not resistant to organic acids, glycolic alcohol, concentrated mineral acids and caustic solutions or solvents.

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 grease, oil, dust and contaminants.

Surface treatment depends on the specific nature of the substrates and is crucial for a long lasting bond. Suggestions for surface preparation may be found on the current edition of the appropriate Sika® Pre-Treatment Chart. Consider that these suggestions are based on experience and have in any case to be verified by tests on original substrates.

Application

Place the unipack in the application gun and snip off the closure clip. Cut off the tip of the nozzle to suit desired joint and apply the sealant with a suitable caulking gun. Take care to avoid air entrapment in the joint.

Sikaflex®-508 is processed between 5 °C and 40 °C (change in reactivity needs to be considered). The optimum temperature for substrate and sealant is between 15 °C and 25 °C. For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

Tooling and finishing

Tooling and finishing must be carried out within the skin time of the sealant. It is recommended using Sika® Tooling Agent N. Other finishing agents must be tested for suitability and compatibility prior the use.

Removal

Uncured Sikaflex®-508 can 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 have to be washed immediately using Sika® Cleaner-350H or a suitable industrial hand cleaner and water. Do not use solvents on skin!

Overpainting

Sikaflex®-508 can be overpainted within the skin formation time. 2 component epoxy paints are usually suitable. Other paints must be tested for compatibility by carrying out preliminary trials under manufacturing conditions. The elasticity of paints is usually lower than of elastomers what could lead to cracking of the paint film in the joint area.

FURTHER INFORMATION

Copies of the following publications are available on request:

- Safety Data Sheets
- Sika® Pre-treatment Chart
  For Silane Terminated Polymers
- General Guidelines
  for Bonding and Sealing with 1-component Sikaflex®

PACKAGING INFORMATION

Cartridge	300 ml
Unipack	600 ml
Drum	195 l

BASIS OF PRODUCT DATA

All technical data stated in this document 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 shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

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