

PRODUCT DATA SHEET

Sikaflex® WS-70 FK

(formerly WS-70FK)

Room temperature applied direct glazing adhesive

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	1-component polyurethane
Color (CQP001-1)	Black
Cure mechanism	Moisture-curing
Density (uncured)	1.25 kg/l
Solid content (JASO M338-89)	96 %
Non-sag properties (JASO M338-89)	Good
Application temperature	ambient 10 – 40 °C
Tack-free time (JASO M338-89)	20 minutes ^A
Shore A hardness (JASO M338-89)	50
Tensile strength (JASO M338-89)	5.9 MPa
Elongation at break (JASO M338-89)	450 %
Tensile lap-shear strength (JASO M338-89)	5.4 MPa
Shelf life	6 months ^B

CQP = Corporate Quality Procedure

^A) 20 °C / 65 % r. h.^B) stored below 25 °C in unopened container

DESCRIPTION

Sikaflex® WS-70 FK is an elastic 1-component polyurethane adhesive system for glazing applications. Suited for bonding materials relevant for direct glazing such as paints, glass, ceramic frits and e-coated systems in commercial vehicle production.

PRODUCT BENEFITS

- 1-component application
- Room temperature applied
- Excellent working characteristics

AREAS OF APPLICATION

Sikaflex® WS-70 FK is suitable for automated and manual direct glazing as well as elastic bonding in the automotive industry. Sikaflex® WS-70 FK bonds well to numerous substrates. Common substrates are pre-treated ceramic frits and glasses with corresponding UV protection as well as cleaned e-coated and painted surfaces. For glasses and ceramic frits, a pre-treatment is mandatory.

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® WS-70 FK 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.

CHEMICAL RESISTANCE

Sikaflex® WS-70 FK 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.

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.

All pre-treatment steps must be confirmed by preliminary tests on original substrates considering specific conditions in the assembly process.

Application

Sikaflex® WS-70 FK can be processed between 10 °C and 40 °C (ambient) but changes in reactivity and application properties have to be considered.

Consider that the viscosity will increase at low temperature. For easy application, condition the adhesive at ambient temperature prior to use.

To ensure a uniform thickness of the bondline it is recommended to apply the adhesive in form of a triangular bead (see figure 1).

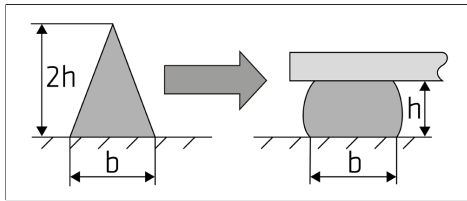


Figure 1: Recommended bead configuration

Sikaflex® WS-70 FK can be processed with manual, pneumatic or electric driven piston guns as well as pump equipment.

The open time is significantly shorter in hot and humid climate. The glass must always be installed within the open time. Never join bonding parts if the adhesive has built a skin.

For advice on selecting and setting up a suitable pump system, contact the System Engineering Department of Sika Industry.

For transparent substrates, bond faces must be fully UV protected by suitable design or means.

Removal

Uncured Sikaflex® WS-70 FK 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 have to be washed immediately using hand wipes or a suitable industrial hand cleaner and water.

Do not use solvents on skin.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets

PACKAGING INFORMATION

Cartridge	300 ml
Pail	4 gal (US)
Drum	54 gal (US)

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.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

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PRODUCT DATA SHEET

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