

PRODUCT DATA SHEET

SikaMelt®-625

Low viscous polyurethane hot melt with short open time

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Polyurethane
Color (CQP001-1)	White – beige, opaque
Cure mechanism	Moisture curing
Density (uncured)	1.2 kg/l (10.0 lb/gal)
Viscosity (by Brookfield)	at 130 °C (266 °F) 5000 mPa·s
Softening temperature (CQP538-5)	78 °C (172 °F)
Application temperature	100 – 160 °C (212 – 320 °F) short term max. 1 h 170 °C (338 °F) ^A
Curing time (CQP558-1)	24 h
Green strength (CQP557-1)	0.5 MPa (70 psi)
Tensile strength (CQP036-3)	12 MPa (1 750 psi)
Shelf life	9 months

CQP = Corporate Quality Procedure

^A) Only valid for nozzle**DESCRIPTION**

SikaMelt®-625 is a reactive hot melt adhesive based on polyurethane. The product has a low viscosity at application temperature and very good processing properties for spray and roll coating application. SikaMelt®-625 is a fast setting product with short open time and medium immediate strength.

PRODUCT BENEFITS

- Very stable processing properties
- Short open time
- Medium green strength
- Broad adhesion spectrum

AREAS OF APPLICATION

SikaMelt®-625 is suitable for permanent bonding of polar plastics as well as for wood, foam, textiles, painted and primed steel. Non polar plastics like PP and PE can be bonded after proper physical pre-treatment.

SikaMelt®-625 is predominantly used for load floor bonding as well as for door insert lamination for Automotive interior trim.

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

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CURE MECHANISM

SikaMelt®-625 cures by reaction with atmospheric moisture. At low temperatures the water content in the air is lower, which will result in a lower curing speed (see diagram 1). When bonding hydrophobic (e.g. PP) and/or moisture impermeable substrates a significantly longer curing time has to be taken into account. This applies especially on assembly applications with an adhesive thickness > 100 µm (4 mil). For lamination applications of hydrophobic and/or moisture impermeable substrates the adhesive layer shall not exceed 100 µm (4 mil). In such cases project related tests with original substrates and conditions are mandatory.

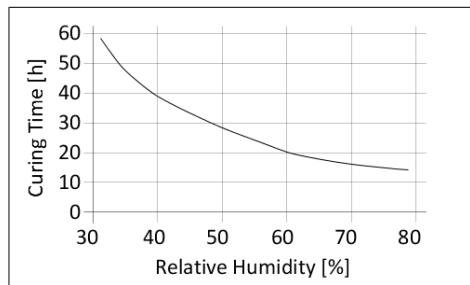


Diagram 1: Curing time for 500 µm (20 mil) film

CHEMICAL RESISTANCE

SikaMelt®-625 is resistant to aqueous surfactant, weak alkaline/acids solutions and temporarily resistant to fuels, solvents and mineral oils.

The chemical resistance is influenced by several factors such as chemical composition, concentration, period of exposure and temperature. Therefore a project related testing in case of chemical or thermal exposure is required.

METHOD OF APPLICATION

Surface Preparation

Surfaces must be clean, dry and free from grease, oil and dust.

Based on the surface and type of material, a physical or chemical pre-treatment might be required. Type of pre-treatment must be determined by preliminary tests.

For metals best results are achieved, if substrates are heated up between 40 °C and 60 °C (104 °F and 140 °F) prior the assembly process.

Application

With adequate processing equipment SikaMelt®-625 can be applied as film, dot, bead or spray application. For automated applications a suitable filter system is required. To meet the required application properties the adhesive viscosity can be adjusted by adapting the application temperature (see table Typical Product Data).

During breaks SikaMelt®-625 is to be processed as follows:

For breaks ≥ 1 h the heating needs to be lowered to 80 °C (176 °F) and for breaks ≥ 4 h the heating needs to be switched off.

To ensure a constant quality during the whole production process it is mandatory to protect the adhesive in the melting tank with nitrogen, carbon dioxide or dried air (to avoid possible reaction of the product with humidity). At breaks or shut downs dip nozzle in dried oil in order to prevent curing of the adhesive (avoid blockage).

For advice on selecting and setting up suitable processing equipment contact the System Engineering Department of Sika Industry.

Removal

Equipment and application tools can be cleaned with SikaMelt®-009. Cured material can be swelled with SikaMelt®-001 and needs to be removed mechanically.

Uncured SikaMelt®-625 may be removed from tools and equipment with Sika® Remover-208 or another suitable solvent.

Hands and exposed skin have to be washed immediately using a suitable industrial hand cleaner and water.

Do not use solvents on skin.

STORAGE CONDITIONS

SikaMelt®-625 has to be stored at temperature below 30 °C (86 °F) in a dry place.

For transportation purposes, the storage temperature can be exceeded for a period of max. 2 weeks up to 60 °C (140 °F).

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

Pail	20 kg
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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.

LEGAL DISCLAIMER

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by contacting SIKA's Technical Service Department via email at tsmh@us.sika.com. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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