

SikaMelt-9675

Long Open Time PUR Hotmelt

Technical Product Data:

Chemical base	Polyurethane reactive hotmelt
Colour	Yellow, opaque
Solids content	100%
Reaction mechanism	Moisture curing
Density at 20°C (DIN 53217) ¹⁾	1,1 kg / l approx.
Viscosity at 130°C (Brookfield Thermosel)	7500 mPas approx.
Softening temperature (DIN 52011: ring & ball) ¹⁾	63°C approx.
Application temperature range	100 - 140°C (short-term 160°C)
Open time (500 µm film at 100°C) (TS-SQP 559-0)	10 min approx.
Green strength (TS-SQP 557-0)	0,3 N / mm ² approx.
Curing time to final strength ²⁾ (TS-SQP 558-0)	1day approx.
Shore D hardness (DIN 53505) ¹⁾	25 approx.
Tensile strength (DIN 53504) ¹⁾	20 N / mm ² approx.
Elongation at break (DIN 53504) ¹⁾	700% approx.
Temperature resistance	-40°C to +110°C (short-term 130°C)
Shelf life (under dry conditions at 5 - 25°C)	6 months

¹⁾ Based on

²⁾ At T = 20°C, relative humidity = 55 %, on 500 µm thick film

Description:

SikaMelt-9675 is a versatile, reactive hotmelt assembly adhesive with long open time based on polyurethane. It cures with moisture of the air and forms an elastomer, which can not be melt anymore.

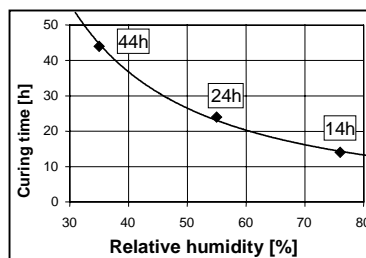
SikaMelt-9675 is manufactured in accordance with the ISO 9001/14001 quality assurance system.

Product benefits:

- High final strength and flexibility over a broad temperature range
- Long open time
- High green strength
- Excellent ageing and heat resistance
- Broad adhesion spectrum

Cure mechanism:

The formation of the SikaMelt-9675 adhesive polymer is based on a cross-linking after reaction with moisture of the air (see diagram³⁾).



Curing time for 500 µm adhesive film³⁾ at 20°C

The curing is not only dependent on the applied film thickness, but also on the moisture content of the air, temperature, moisture content and permeability of the substrates.

Areas of application:

SikaMelt-9675 has a broad adhesion spectrum. It is suitable for permanent strong bonding of many polymers like ABS, PC, SMC and PVC, and wood, foams, textiles, painted and primed steel. Unpolar polymers like PP and PE can also be bonded after pre-treatment.

Area applications on substrate combinations like polymer and steel plates, which do not provide moisture permeability to the adhesive layer, are not possible with SikaMelt-9675.

Chemical resistance:

SikaMelt-9675 is resistant to aqueous surfactant solutions, weak acids and caustic solutions. It is temporarily resistant to fuels, solvents and oils. As the chemical resistance depends on type and condition of the substrate, chemical concentration, exposure duration and temperature, a project adapted adhesive performance test is strongly recommended.

Method of application:

SikaMelt-9675 can be applied by heated piston-type cartridge gun, by appropriate melting equipment out of containers, and out of hobbocks or drums for film-, spot-, bond-line- or spray-application.
Split width 0,1-1 mm.

Standstill periods for several hours or over night have to be avoided especially at temperatures over 120°C. During longer periods of interruption the equipment temperature has to be lowered to 100°C. Clean the nozzles with a dry oil (available on request) in order to avoid blockage.

Surface preparation. Bonding area must be clean, dry and free from grease, oil and dust. Adhesion can be improved by suitable substrate pre-treatment. Metals should be heated to 40°C prior to use. Due to a variety of substrates and mechanical load requirements, technical consultations with our Technical Service are in any case advisable.

Cleaning up. SikaMelt-9675 in uncured state may be removed from tools and equipment with SikaMelt-9900 (see also manual "Cleaning of SikaMelt reactive PUR hotmelt application tools"). Once cured inside application equipment, the material can be swelled with SikaMelt-9901. After swelling there is a mechanical cleaning necessary.

Further information:

Copies of the following publications are available on request:

- Safety Data Sheet
- Manual "Cleaning of SikaMelt reactive PUR hotmelt application tools"

Packaging information:

Hobbock	20 kg
Bag	2,5 kg
Cartridge	0,33 kg

Important:

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

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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