SikaMelt[®]-9674 FR

Flame Retardant Lamination PUR-Hotmelt with long open time and high initial tack

		Polyurethane reactive
Chemical base		hotmelt
Color		White - beige, opaque
Cure mechanism		Moisture-curing
Density (CQP 006-7)		1,2 kg/l approx.
Solid content		100%
Viscosity at 130℃ (Brookfield Thermosel)		6500 mPas approx.
Softening Temperature (ISO 5940 (ring & ball method))		74℃ approx.
Application temperature		90 - 160℃ (short term 170℃)
Open time (CQP 559-1)		4 min. approx.
Curing time (CQP 558-1)		1 day approx.
Green strength (CQP 557-1)		0,66 MPa approx.
Tensile strength (CQP 036-3)		15 N/mm ² approx.
Elongation at break (CQP 036-3)		1100% approx.
Temperature Resistance (CQP 513-2)		-40℃ to +110℃ (short term 130℃)
Shelf life (storage below 25°C)	cartridge other packaging	4 months 6 months
An excess of the recommended storage temperature during		

¹⁾ CQP = Corporate Quality Procedure

Description

SikaMelt[®]-9674 FR is a versatile, reactive hotmelt assembly and laminating adhesive with very long open time based on polyurethane. It cures with moisture of the air and forms an elastomer, which can not be melt anymore.

SikaMelt[®]-9674 FR is manufactured in accordance with ISO 9001 / 14001 quality assurance system and the responsible care program.

Product Benefits

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

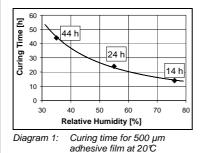
Areas of Application

SikaMelt[®]-9674 FR has a broad adhesion spectrum. It is suitable for permanent strong bonding of polar 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 special 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[®]-9674 FR. This product is suitable for professional experienced users only. Test with actual substrates and conditions have to be performed to ensure adhesion and material compatibility.



Cure Mechanism

The formation of the SikaMelt[®]-9674 FR adhesive polymer is based on a cross-linking after reaction with moisture of the air (see diagram 1).



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.

Chemical Resistance

SikaMelt[®]-9674 FR is <u>resistant</u> to aqueous surfactant solutions, weak acids and caustic solutions. It is <u>temporarily resistant</u> 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.

The above information is offered for general guidance only. Advice on specific applications will be given on request.

Method of Application

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.

Advice on specific applications is available from the Technical Service Department of Sika Industry.

Application

SikaMelt[®]-9674 FR 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 is 0,1 - 1 mm. For automated application a suitable filter system is required.

Standstill periods for several hours or over night have to be avoided especially at temperatures above 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.

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

Removal

SikaMelt[®]-9674 FR in uncured state may be removed from 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 a mechanical cleaning is necessary. Uncured SikaMelt[®]-9674 FR may be removed from tools and equipment with Sika[®] Remover-208 or another suitable solvent.

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
- Manual "Cleaning of SikaMelt[®] reactive PUR hotmelt application tools"

Packaging Information

Cartridge	330 g
Bag	2,5 kg
Hobbock	20 kg
Drum	195 I

Value Bases

All technical data stated in this Product Data Sheet 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 should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safetyrelated data.

Legal Notes

The information, and, in particular, the recommendations relating the to application and end-use Sika of 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 accordance with Sika's recommendations. 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 user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



Further information available at: www.sika.de www.sika.com

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