

BUILDING TRUST

SikaMelt[®]-884 IS

PRODUCT DATA SHEET

Reactive polyolefin hot melt with high initial strength and medium open time

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base		Polyolefin	
Color (CQP001-1)		Yellow	
Cure mechanism		Moisture curing	
Density		0.89 kg/l	
Viscosity (by Brookfield)	at 140 °C	13 500 Pa·s	
Softening temperature (CQP538-5)		95 °C	
Application temperature		120 – 180 °C	
	short term max. 1h	190 °C ^A	
Open time (CQP559-1)		Medium	
Curing time (CQP558-1)		20 h	
Green strength (CQP557-1)	after 30 min	0.8 MPa	
Tensile strength (CQP036-3)		3.7 MPa	
Shelf life		12 months	

CQP = Corporate Quality Procedure

DESCRIPTION

SikaMelt[®]-884 IS is a reactive hot melt lamination adhesive with high green strength based on polyolefin that cures on exposure to atmospheric humidity. Due to its medium open time SikaMelt[®]-884 IS is suitable for lamination applications within open time as well as by heat reactivation.

^{A)} only valid for nozzle

PRODUCT BENEFITS

High initial strength

Classification free

 Good adhesion on polypropylene without pre-treatment
Medium open time
SikaMelt®-884 IS has very good adhesion properties on non-polar olefin based substrates like polypropylene without surface

AREAS OF APPLICATION

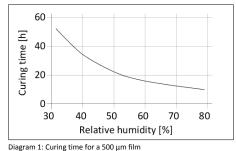
SikaMelt[®]-884 IS has very good adhesion properties on non-polar olefin based substrates like polypropylene without surface treatment. It is in general also suitable to bond on wood, textiles, non-woven materials and foams.

SikaMelt[®]-884 IS is designed for lamination for Automotive interior applications, focussing on the bonding of textiles, foils and foam within open time in automated processes.

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

SikaMelt[®]-884 IS 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 μ m. For lamination applications of hydrophobic and/or moisture impermeable substrates the adhesive layer shall not exceed 100 μ m. In such cases project related tests with original substrates and conditions are mandatory.



CHEMICAL RESISTANCE

SikaMelt[®]-884 IS 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.

Application

With adequate processing equipment SikaMelt®-884 IS 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®-884 IS is to be processed as follows:

For breaks \geq 1 h the heating needs to be lowered to 80 °C and for breaks \geq 4 h the heating needs to be switched off.

To ensure a constant quality during the whole production pro-cess 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 humidity to cure 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®-005 (see also Cleaning Instructions).

SikaMelt[®]-884 IS 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 Sika® Cleaner-350H or a suitable industrial hand cleaner and water. Do not use solvents on skin.

STORAGE CONDITIONS

SikaMelt[®]-884 IS has to be stored at temperature below 40 °C in a dry place. For transportation purposes, the storage temperature can be exceeded for a period of max. 2 weeks up to 60 °C.

FURTHER INFORMATION

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

Copies of the following publica-tions are available on request:

- Safety Data Sheets
- Cleaning Instructions
- For SikaMelt[®]-88x (Reactive APAO hot melts)

PACKAGING INFORMATION

Bag	1.5 kg
Pail	15 kg
Bag (cardboard)	18 kg
Drum	140 kg

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

The information, and, in particular, the recommendations relating to the application and enduse 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 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.

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