

PRODUCT DATA SHEET

SikaMelt®-886 VL

Reactive polyolefin hot melt for vacuum covering

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Chemical base	Polyolefin
Color (CQP001-1)	White – beige
Cure mechanism	Moisture curing
Density	0.88 kg/l
Viscosity (by Brookfield)	at 140 °C 10 000 mPa·s
Softening temperature (CQP538-5)	120 °C
Application temperature	140 – 180 °C short term max. 1h 190 °C ^A
Open time (CQP559-1)	Short
Curing time (CQP558-1)	24 h
Green strength (CQP557-1)	after 30 min 0.7 MPa
Shelf life	12 months

CQP = Corporate Quality Procedure

^{A)} only valid for nozzle

DESCRIPTION

SikaMelt®-886 VL is a reactive hot melt lamination adhesive with high green strength based on polyolefin that cures on exposure to atmospheric humidity. Due to its chemical base is SikaMelt®-886 VL suitable for vacuum lamination of membranes with PP foam backing on polypropylen carriers without surface treatment.

PRODUCT BENEFITS

- Fast setting adhesive with short open time and low surface tack
- Good adhesion on non-polar substrates
- Classification free
- High initial strength
- Very good humidity resistance
- Improved application properties

AREAS OF APPLICATION

SikaMelt®-886 VL 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®-886 VL is designed for vacuum covering of TPO membranes and foils with PP foam backing used for Automotive interior.

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®-886 VL 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. For lamination applications of hydrophobic and/or moisture impermeable substrates the adhesive layer shall not exceed 100 µm. In such cases project related tests with original substrates and conditions are mandatory.

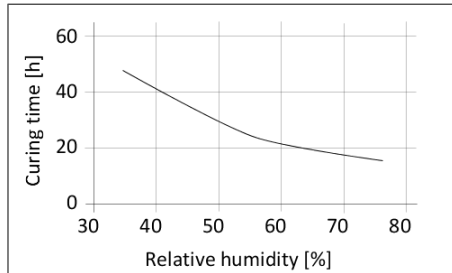


Diagram 1: Curing time for a 500 µm film

CHEMICAL RESISTANCE

SikaMelt®-886 VL 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.

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

METHOD OF APPLICATION

Surface preparation

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

Application

With adequate processing equipment SikaMelt®-886 VL 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®-886 VL is to be processed as follows:

For breaks ≥ 1 h the heating needs to be lowered to 80 °C 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 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®-886 VL 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®-886 VL 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 available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets
- Cleaning Instructions

For SikaMelt®-88x (Reactive APAO hot melts)

PACKAGING INFORMATION

Drum	150 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.

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.