

Technical Data Sheet

Euro-Patent # 0624634

SIMALFA[®] 805

Adhesive

SIMALFA[®] 805 is a well established solvent free contact adhesive with a water base. Once some pressure is put on this adhesive it starts reacting. It can be used to bond a variety of foam products and upholstery materials. This adhesive has an excellent wet sticking property and high flexibility as well as good heat resistance. The adhesive can be applied to one side by means of roller equipment.

Application

SIMALFA[®] 805 is especially suitable for the foam and upholstery industry, for gluing foams as latex, polyether, polyurethane and polyethylene. It can also be applied to upholstery materials such as wood, chip board, cardboard, jute, rubber and hair, etc.

Features

SIMALFA[®] 805 has the following remarkable favourable features:

- high initial adhesive strength immediately after coating without additional drying time
- very high heat resistance
- no solvents (0.0% solvents)
- high solid content
- one side application
- non-flammable
- equipment washable with water
- no hazards
- no restrictions from air purity control
- many applications possible
- non sticky surface

Product Description

Composition	dispersion of an acrylic resin in water / synthetic rubber
Appearance	milky white
Solids	approx. 55 %
Density of dispersion	1,06 g/cm ³ (cubic centimetre)
pH-factor	approx. 7.5...9.2
Viscosity Brookfield RV Sp. 2, 20U/min.	approx. 1000 mPas/s
Tearing resistance	approx. 600%
Heat resistance	approx. 80...90°C
Storage	in the original containers up to at least 6 months at temperatures not below approx. +5°C and not over +40°C
Cleaning	washable with water
The adhesive is sensitive to frost . Temperatures below 0°C destroy the adhesive !	

Application Equipment

SIMALFA[®] 805 can be applied with roller application which is equipped with counter-rotation rollers made of stainless steel. (one side application)
Definitely **no** coloured metals, aluminium or steel may be used. To clean and to take care of equipment and hands, we recommend our **ALFA Hand Cleaner**.

Film Coating

SIMALFA® 805 can be applied on one side. When applying approx. 40...100 g/m² on one side, the desired initial adhesive strength is attained by pressing the two sides together for a short period. The initial adhesive strength can be enhanced by airing of the pieces to be glued (approx. 3 minutes). After 10 minutes, no attempt should be made to glue together, since otherwise the final adhesive strength is inferior or an „assumed bond“ only is attained. The final adhesive strength may be tested after 24 hours only. We recommend additional pressure with a press machine attachment.

Important Notice

The usual precautionary measures have to be taken, the same as when handling chemical products. This includes a well ventilated working place, particularly when larger quantities are processed. For technical data see according safety data sheet.

The particulars on this data sheet are based on our present knowledge and experience. Of course each user has to make his own tests when using our products. Our data sheet cannot be considered legally binding in the case of certain material or suitability for all applications. Rules and legislation in each country have to be taken into consideration and we cannot be held responsible for local regulations unknown to us.

In case of any problem, please consult us.

May 2006
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SIMALFA® Registration: Euro-Patent No. 0624634.
SIMALFA® is a registered trade mark of ALFA *Klebstoffe AG*
The **SIMALFA®** free-flowing-system is patented: U.S. Patent # 5,868,319

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Safety Data Sheet

Date: May 2006

SIMALFA® 805 according 91/155/EWG

1. Substance/Preparation and Company Name

SIMALFA® 805 water based dispersion adhesive for foam bonding

ALFA Klebstoffe AG, Vor Eiche 10, CH-8197 Rafz, Tel. ++41 (0)43 433 30 30, Fax. ++41 (0)43 433 30 33

2. Composition/Information on Ingredients

Approx. 55 % aqueous copolymer dispersion based on acrylate and synthetic rubber.

3. Possible Hazards

Critical hazards to man and the environment: None

4. First Aid Measures

General advice: Remove contaminated clothing.

On skin contact: Wash thoroughly with soap and water.

On contact with eyes: Wash affected eyes for at least 15 minutes under running water with eyelids held open; consult an eye specialist.

On ingestion: Immediately rinse mouth and then drink plenty of water, summon physician.

5. Fire Fighting Measures

Suitable extinguishing media: Water spray, dry extinguishing media, foam.

The adhesive is not flammable in wet condition. (water based)

The dry substance (dry adhesive film) is of low flammability and self-extinguishing.

6. Accidental Release Measures

After spillage / leakage / gas leakage:

Pump large quantities into containers; use sand to soak up remainder or use absorbing material (i.e. diatomaceous earth). For smaller quantities clean up with water. Waste water must be disposed of correctly.

7. Handling and Storage

Handling advice on safe handling:

General ventilation is recommended during normal use. For larger quantities use respiratory protection.

Storage: Store protected against freezing, between + 5° and + 40°C.

8. Exposure Controls and Personal Protection

Eye protection: --

Skin protection: use hand cleaner

Ventilation: the need for respiratory protection should be evaluated if this material is sprayed in poorly ventilated areas.

Hands and/or face should be washed before breaks and at the end of the shift.

Avoid contact with eyes and prolonged skin contact.

9. Physical and Chemical Properties

Form:	liquid	
Colour:	white or red	
Odour:	low	
Change in physical state		
Boiling point:	100°C at 1013 hPa	
Density:	approx. 1.06 g/cm ³ at 20 °C	DIN 51757
Vapour pressure:	130 hPa at 50 °C	
Viscosity Brookfield RV		
Sp. 2, 20 U/min.	approx. 1000 mPas/s	
Solubility in water:	miscible	
pH-value:	approx. 7.5...9.2	DIN 53785
Flash point:	not applicable	
Ignition temperature:	not applicable	
Explosion temperature:	self ignition temperature 450°C	DIN 54863
	strange ignition temperature 340°C	DIN 34836
Explosion temperature:	not applicable	

10. Stability and Reactivity

Thermal decomposition: No decomposition if used correctly.
Hazardous reactions: No decomposition if used correctly.

11. Toxicological Information

In our experience and according to information available to us the product is not harmful to health provided it is correctly handled and processed according to the given recommendations.

12. Ecological Information

Elimination information: The product can be virtually eliminated from water by abiotic processes i.e. adsorption on to activated sludge. Do not discharge product into natural waters without pre-treatment (biological treatment plant).

Behaviour and environmental fate:

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Ecotoxic effects: no data available

Further ecological information: Local effluent treatment regulations should be complied with.

13. Disposal Consideration

The following EAK disposal code is valid for SIMALFA®:

(EAK: European Disposal Catalogue)

- 1) 080410 waste adhesives and sealants other than those mentioned in 08 04 09
- 2) 080416 aqueous liquid waste containing adhesives or sealants other than those mentioned in 080415

14. Transport Information

Not classified as hazardous under transport regulations.

15. Regulatory Information

Labelling according to EEC Directives: Not subject to labelling in accordance with EEC Directives

Handle in accordance with good industrial hygiene and safety practice.

National legislation/regulations: According to data available to us, the product is not hazardous under the relevant German Legislation (Gefahrstoffverordnung).

Water hazard class: WGK 1 (Germany)

16. Other Information

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. Recipients of our product must take responsibility for observing existing laws and regulations.