

SIMALFA® 309

Technical Data Sheet

Adhesive:

SIMALFA® 309 is a solvent-free, pressure-sensitive dispersion adhesive with a water base used for the bonding of foams, upholstery materials and more. The adhesive has an excellent wet sticking property and high flexibility as well as good heat resistance. The adhesive, depending on the grade, is applied to one or both sides by means of low pressure spray gun (HVLP).

Specifications:

Composition:	Dispersion of Acrylate / CR polymer in water
Appearance:	white or red
Density:	approx. 1.06 g/cm3
pH-value:	8.0 - 9.0
Viscosity:	500 ... 1000 mPas (Brookfield RV Sp. 2, 20 rpm)
Heat resistance:	approx. 80 - 90°C
Application quantity:	approx. 60 - 150 g/m2
Open time:	approx. 15 min.
Final adhesion:	approx. 1 - 24 hours, depending on the material
Shelf life:	at temperatures +5°C...+35°C, in unopened original packaging 6 months
Cleaning:	Water (ALFA Cleaner is recommended)
Packaging:	Boxes of 20 kg, Containers of 500 kg, IBCs of 1000 kg

The adhesive is sensitive to frost. Temperatures below 0°C destroy the adhesive!

Features:

Minimal overspray
 Very high initial adhesive strength immediately after spraying without additional drying time, high heat resistance, solvent-free, no hazards, also one-sided applicable, high solid content, non-flammable

Application:

Foam and upholstery industry
 Wood, chipboard
 This adhesive has been specially developed for bonding all common upholstery / mattress materials, e.g. latex foam, polyether foam, PU-foam, PE-foam, cardboard, felt etc. as well as smooth carrier materials (chipboard etc.).
 Create the bond within the open time and press firmly.

Application equipment:

SIMALFA® G21, nozzle size 2.0 mm
 Counter-rotating rollers
 Wetted parts: Stainless steel (V2A) or plastic

Feeding:

Free Flowing System, pressure pot (max. 1.0 bar)
 In addition to SIMALFA® adhesives, we also offer the appropriate application equipment for proper application. This includes spray guns, pressure vessels and pumps which have been tested and approved for industrial use in our SIMALFA® Competence Center on the basis of numerous tests and many years of practical experience. In addition, we support our customers in an advising way in the evaluation of production lines, such as mattress lines and upholstery productions.
 The coordinated combination of adhesive and application system ensures an efficient process-safe adhesive application and best final quality.

Processing:

Two-sided, one-sided for parts with low tension
 For best results, the surfaces to be bonded should be clean, dry, free of grease and brought to the processing temperature.

Important notice:

We take the safe use and responsible handling of our products very seriously. For further information on relevant safety aspects, please refer to the corresponding safety data sheet of the product.

Products based on acrylate, CR, EVA, NR and PU polymers are not plasticizer resistant. We offer specific products for bonding plasticizer-containing substrates, such as artificial leather.

Dispersion adhesives can affect the color authenticity in combination with leather in light colors. The material should be tested for suitability in advance.

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

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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 the case

of inconsistencies between different translations, the German version shall prevail.

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