

LOCTITE UK 8101 B3 / LOCTITE CR 4300

(Draft - product on hold) April 2013

PRODUCT DESCRIPTION

LOCTITE UK 8101 B3 / LOCTITE CR 4300 provides the following product characteristics:

Technology	Polyurethane
Product Type	PU Adhesive
Cure	Polyaddition
Condition	Solvent-free
Components	Two-component
Application	Casting compound
Color (Comp. A)	Cream
Color (Comp. B)	Brown
Mixing Ratio,	4:1
by weight	
Comp. A : Comp. B	

LOCTITE UK 8101 B3 / LOCTITE CR 4300 is a solvent-free two-component casting resin, based on polyurethane. The resin part (component A) contains organic compounds with hydroxyl groups, the hardener (component B) is based on isocyanates.

By mixing both components in a mix ratio of 4:1 a hard elastic casting resin is formed through chemical reaction. After curing the product exhibits no measurable change in volume.

LOCTITE UK 8101 B3 / LOCTITE CR 4300 is a testing product. Technical data are subject to change.

APPLICATION AREAS

LOCTITE UK 8101 B3 / LOCTITE CR 4300 is used for the industrial production of filters.

TECHNICAL DATA

Component A Loctite UK 8101 B3:

Consistency: liquid
Density, g/cm³ 1.4 to 1.5
Viscosity, Brookfield - RVT, 20°C, mPa.s * 6,000 to 10,000
Henkel method 10

Component B Loctite CR 4300:

Consistency: thin liquid
Density, g/cm³ 1.18 to 1.28
Viscosity, Brookfield - RVT, 20°C, mPas * 40 to 70

Henkel method 10

Mixture (Component A + B):

Consistency: liquid Viscosity, Brookfield - RVT, 25°C, mPas 800 to 1,600 Henkel method 11 Pot life (125g, 20 °C), min* 2.5 to 4.5 Henkel method 20 20 to 25 Initial setting time (23 °C), min Tensile Shear Strength, MPa >6 EN 1465 / Henkel method 40 In service temperature, °C -40 to 80 Short exposure (up to 1 h), °C 120

All technical data based on Henkel test method. Data with * are specified.

DIRECTIONS FOR USE

Preliminary Statement:

Prior to use it is necessary to read the **Material Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Pretreatment:

The substrate should be clean, dry, free of dust, oil, grease and other contaiminants. The usage of suitable primers on metal surfaces can improve the adhesion and / or the long-term bond stability. The surface of plastic materials should be cleaned, so as to remove any kind of release agents present on the substrate surface. An improvement of the adhesion can be achieved by grinding or sandblasting the surface.

Application:

Component A must be properly and slowly homogenized before use.

The components of the casting resin can be mixed manually by using an electrical hand mixer or by using a two-component dispending system and inclusion of air must be prevented. After mixing no streaks must be visible. The casting resin is only to be used within a limited time (pot life). After this time the mixture gels up and is not suitable for use. Therefore only the amount that can be applied within the time of pot life should be mixed. The pot life depends on the quantity and temperature of the mixed batch. With larger quantities and an increase in temperature, the pot life



decreases. Lower temperatures extend the pot life. The components should not come into contact with moisture during storage or application. Contact with moisture generates foaming of the casting resin and weakens the bondline. Therefore all packaging should be sealed properly and protected against humidity during storage.

Curing:

LOCTITE UK 8101 B3 / LOCTITE CR 4300 can be cured between 15°C) and elevated temperatures (up to 60°C). The curing time will be reduced substantially with increasing temperatures.

Cleaning:

Fresh, uncured material (cleaning application equipment, substrate contamination etc.) can be removed with LOCTITE SF 8040; cured adhesive can only be removed mechanically.

Classification:

Please refer to the corresponding **Material Safety Data Sheets** for details on:

Hazardous Information Transport Regulations Safety Regulations

Storage

Component A

Recommended Storage Temperature, °C 15 to 25 Shelf-life (in unopened original packaging) 12 months

Component B

Recommended Storage Temperature, °C 15 to 25 Shelf-life (in unopened original packaging) 9 months Frost-Sensitive Yes

Storage below 10°C or greater than 50°C can adversely affect product properties.

ADDITIONAL INFORMATION

Disclaimer

Note:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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