

LOCTITE[®] UK 8436 / LOCTITE[®] UK 5400

October 2020

PRODUCT DESCRIPTION

LOCTITE[®] UK 8436 / LOCTITE[®] UK 5400 provides the following product characteristics:

Technology	Polyurethane
Product Type	PU Adhesive
Cure	Polyaddition
Condition	Solvent-free
Components	Two-component
Application	Assembly
Appearance (Comp. A)	Beige
Appearance (Comp. B)	Brown
Mix Ratio by weight - Comp. A : Comp. B	2 : 1

LOCTITE[®] UK 8436 / LOCTITE[®] UK 5400 is a solvent-free two-component coating compound, 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 2 : 1 a hard elastic product is formed through chemical reaction. After curing the product exhibits no measurable change in volume.

As natural raw materials (from different cultivation areas) are used a variation in color between different batches is possible.

Application Areas:

LOCTITE[®] UK 8436 / LOCTITE[®] UK 5400 is used as potting compound for various applications.

TECHNICAL DATA

Component A

LOCTITE[®] UK 8436:

Consistency	liquid
Density, g/cm ³	0.98 ± 0.05
Viscosity, Brookfield - RVT, 20°C, mPa·s (cP)	500 to 1,500
Spindle 3, speed 20 rpm	
Storage temperature, °C	15 to 25

Component B

LOCTITE[®] UK 5400

Consistency	liquid
Density, g/cm ³	1.22 ± 0.05
Viscosity - Brookfield - RVT, 20°C, mPa·s *	250 to 350
Spindle 2, speed 20 rpm	
Storage temperature, °C	15 to 30

Mixture (Component A + B)

Consistency	liquid
Viscosity, Brookfield - RVT, 20°C, mPa·s	700 ± 200
Spindle 3, speed 20 rpm	
Pot life (150g, 20 °C), sec	130 to 180
Setting time 23 °C, hrs.	1

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 **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 contaminants. 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:

Potting compound components can be mixed manually, with stirring application or two-component mixing equipment. The adhesive 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. Adhesive components should not come into contact with moisture during the storage or application. Contact with moisture (water vapour) generates foaming of the adhesive and weakens the bondline. Therefore all packaging should be sealed properly and protected against humidity during storage.

Curing:

LOCTITE® UK 8436 / LOCTITE® UK 5400 can be cured between 15°C and elevated temperatures (up to 60 °C). The curing time will be reduced substantially with increasing temperatures. While curing there should be adequate contact pressure (load pile, presses, clamps) and fixtures to hold the joint in place. An adhesive squeeze out along the bond line is a good indication of sufficient adhesive in the joints.

Cleaning:

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

Not for product specifications:

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Classification:

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

Hazards identification

Transport information

Regulatory information

Storage:

Recommended Storage Temperature, °C

Component A: LOCTITE® UK 8436 15 to 25

Component B: LOCTITE® UK 5400 15 to 30

Component B (LOCTITE® UK 5400) is frost sensitive.

ADDITIONAL INFORMATION**Disclaimer**

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. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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Reference 1