

# LOCTITE UK 8418 B2 / LOCTITE UK 5400

September 2015

## PRODUCT DESCRIPTION

LOCTITE UK 8418 B2 / LOCTITE UK 5400 provides the following product characteristics:

<b>Technology</b>	Polyurethane
Product Type	PU Potting compound
<b>Cure</b>	Polyaddition
Condition	Solvent-free
<b>Components</b>	Two-components
Component A	Resin
Component B	Hardener
<b>Application</b>	Assembly
Appearance (Comp. A)	Beige
Appearance (Comp. B)	Brown
Mixing Ratio, by weight Comp. A : Comp. B	100 : 30

LOCTITE UK 8418 B2 / LOCTITE UK 5400 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 weight ratio of 100 : 30 a hard elastic product is formed through chemical reaction. After curing the product exhibits no measurable change in volume.

## APPLICATION AREAS

LOCTITE UK 8418 B2 / LOCTITE UK 5400 is used for potting of elements in various applications. Main application is the potting of brushes.

## TECHNICAL DATA

### Component A

#### Loctite UK 8418 B2:

Consistency:	liquid
Density, g/cm <sup>3</sup>	1.58 to 1.68
Viscosity, Brookfield - RVT, 20°C, mPa.s *	4,000 to 6,000
Henkel method 10	

### Component B

#### Loctite UK 5400:

Consistency:	liquid
Density, g/cm <sup>3</sup>	1.17 to 1.27
Viscosity - Brookfield - RVT, 20°C, mPa.s *	150 to 350
Henkel method 10	

### Mixture (Component A + B):

Consistency:	liquid
Pot life (130g, 20 °C) , sec Henkel method 20	80 to 100
Final setting time (23°C), days	4 to 5
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 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:

Component A must be properly and slowly homogenized before use.

Adhesive components can be mixed manually, with stirring application or two-component mixing equipment. The product may be applied by spatula, wheel, pouring or spraying. 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 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 8418 B2 / 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. The addition of chemical catalysts (accelerators) also speeds up the curing reaction (i.e. pot life, open time).

**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 30
Shelf-life (in unopened original packaging)	12 months

**Component B**

Recommended Storage Temperature, °C	15 to 30
Shelf-life (in unopened original packaging)	12 months

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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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