

LOCTITE EA 9014

March 2018

PRODUCT DESCRIPTION

LOCTITE EA 9014 provides the following product characteristics:

Technology	Epoxy
Product Type	Epoxy adhesive
Cure	Polymerisation
Components	Two-component
Application	General assembly
Appearance (Comp. A)	Yellow
Appearance (Comp. B)	Blue
Appearance (Mixture)	Green

Application Areas:

LOCTITE EA 9014 is a two-component adhesive with controlled rheology designed for the assembly of filter end caps. Rapid setting and excellent chemical resistance are important features of this product. Its low water absorption and good chemical and temperature resistance make it ideal for applications exposed to the weather or aggressive environments.

TECHNICAL DATA

Component A:

LOCTITE EA 9014 A :

Viscosity, mPas	24,000
Specific Gravity, g/cm ³	1.72

Component B

LOCTITE EA 9014 B :

Viscosity, mPas	125
Specific Gravity, g/cm ³	1.02

Mixture (Component A + B):

Viscosity at 25 °C, mPas	~8,000
Specific Gravity, g/cm ³	1.63
Mixing ratio (by volume)	7:1
Mixing ratio (by weight)	100:8
Gap fill (on a vertical surface), mm	< 0.5
Lap Shear Strength, MPa*	16 (Steel)
Cure Time at 23 °C, hrs.	
Pot life:	12 min
Handling strength:	4 min
Working strength:	16 min
Full strength:	24 min
Cure Time at 60 °C, hrs.	
Working strength:	10 min
Handling strength:	5 min
Full strength:	20 min

The cure speed of 2 part epoxy resins is generally affected by the ambient temperature. A fall of 8°C will roughly double the cure time; a rise of 8°C will tend to halve it.

*On Composites this adhesive is capable of strengths similar to that achieved on steel but in most cases delamination on the composite will occur before this load is reached. On Aluminium & Copper alloys the modulus and thickness of the metal will define the ultimate bond strength achieved.

DIRECTIONS FOR USE

Preliminary Statement:

Prior to application 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.

Application:

Generally the recommended service temperature range for this product is -55 to +80°C. However experience has shown that higher temperatures, of around 200°C, may be endured for short periods providing the adhesive is not unduly stressed.

Thoroughly mix resin (A) and hardener (B) in the correct proportion. Do not mix more material than can be applied during the potlife of the product. Surfaces should be clean, dry and grease free before applying the adhesive.

Classification:

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

Hazards identification
Transport information
Regulatory information

Storage:

When stored in the original unopened containers at 0 to 10°C (component A) and 5 to 25°C (component B), the shelf life of this product is 36 months from the date of production.

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Reference 0.1