



# LOCTITE® E32

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## Description:

Loctite E32 has remarkable resistance to both static and dynamic loading, and bonds to a wide variety of materials including metals, composites, ceramics and wood. E32 has been selected for many industrial assemblies where structural integrity is required. Applications extending back over 20 years confirm its excellent environmental durability. Accurately metered and mixed material can be applied direct to the workpiece by using E32 in the 'EDS' cartridge pack.

Physical Properties:	Part A - Resin	Part B - Hardener	Mixed
Colour	White	Black	Grey
Viscosity (mPa.s)	Soft Paste	Soft Paste	80,000
Specific Gravity	1.38	1.06	1.22
Mix Ratio- By Weight - By Volume	100:80 1:1	Gap Fill (on a vertical surface)	~1 mm

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.

## Typical Performance:

<u>Cure Speed</u>	<u>Usable Life</u>	<u>Handling Strength</u>	<u>Working Strength</u>	<u>Full Strength</u>	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.
- at 23°C - at 60°C	2 hrs.	8 hrs	24 hrs. 30 mins	72 hrs. 1 hr.	
Lap Shear Strength (MPa) EN1465:1995	26 (Steel)	On <b>Composites</b> 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 <b>Aluminium &amp; Copper</b> alloys the modulus and thickness of the metal will define the ultimate bond strength achieved.			

## Storage:

When stored in the original unopened containers at 5-25°C, the shelf life of this product is 36 months from date of manufacture.

## Handling:

Full information can be obtained from the Material Safety Data Sheet (M.S.D.S.). Users are reminded that all materials, whether innocuous or not, should be handled according to the principles of good industrial hygiene.



**Directions for Use:**

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

Where maximum strength is required then the surfaces should be shot blasted, or lightly abraded, in the presence of Loctite SIP.

Ideally LoctiteE32 should be cured at temperatures above 15°C. Lower temperatures result in lower strength. The unmixed material should not be refrigerated. LoctiteE32 is approved to the Waters Byelaws Scheme as being suitable for contact with potable (drinking) water.

The information given and the recommendations made herein are based on our experience and are believed to be accurate. No guarantee as to, or responsibility for, their accuracy can be given or accepted, however, and no statement herein is to be treated as a representation or warranty. In every case we urge and recommend that purchasers, before using any product, make their own tests to determine, to their own satisfaction, its suitability for their particular purposes under their own operating conditions.

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