

# Technical Data Sheet

## BS-8512 Multi Purpose Epoxy



### Features

- ◆ Two-component Epoxy
- ◆ Longer Working Time for Large Assemblies
- ◆ High Mechanical Strength
- ◆ Excellent Resistance to Most Chemicals, Heat
- ◆ Bonding to Most Surfaces

### Packaging

- ◆ 225 g / set ~ 50 / carton
- ◆ 450 g / set ~ 24 / carton
- ◆ 900 kg / set ~ 12 / carton
- ◆ 1.80 kg / set ~ 6 / carton

### Product Specification

	Part A	Part B
Base	: Epoxy resin	: Polyamide hardener
Color	: Clear liquid	: Slightly yellowish clear liquid
Viscosity	: 6,000 - 12,000 cPs	: 35,000 – 45,000 cPs
Density	: approximately 1.16 g/mL (9.7 lb/gal)	: approximately 0.98 g/mL (9.4 lb/gal)
Mixing Ratio (by Weight)	: 100 : 84	
Mixing Ratio (by Volume)	: 1:1	
Gel time (10 g)	: 90 - 120 minutes (depending on the adhesive amount and temperature)	
Application Temperature	: 15 - 35 °C (59 - 95 °F)	
Set Time	: 3 hours	
Hardness	: 75 - 85	
Time to Handling Strength	: 8 hours	
Time to Full Strength	: 18 hours	
Lap Shear Strength		
	Curing Hour – 8 hours	: 3.1 N/mm <sup>2</sup>
	18 hours	: 11.5 N/mm <sup>2</sup>
	1 day	: 14.4 N/mm <sup>2</sup>
Shelf Life	: 12 months	

### Description

a two-component epoxy designed to form a tough adhesive material that is resistant to weathering, fungus, seawater, decay, gasoline, alkali, and even certain acids. It is the original heavy-duty epoxy that is suitable for most conditions, and it allows longer working time for large assemblies with many components. It exhibits a remarkable combination of properties: high mechanical strength, excellent resistance to most chemicals, and high heat resistance. It contains no solvent that causes shrinkage, chipping, peeling off, or cracking. It allows easy workability and bonding to most surfaces.

### Applications

It is specially formulated for heavy duty bonding and repair applications, where increased strength, durability and reliability are required. It works well on fiberglass, glass, wood, metal, concrete and most plastics.



# BS-8512

## Multi Purpose Epoxy

### Direction

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Pour out equal amount of resin (clear) and hardener (yellowish) on any disposable container or surface.
3. Mix thoroughly and apply mixture to both surfaces before joining. Higher temperature will accelerate hardening.
4. Close the can after use and store in a cool, dry place.

### Caution

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Toxic to aquatic life with long lasting effects. Avoid breathing vapours. Wash hands thoroughly after handling. Wear protective gloves and eye protection. IF ON SKIN: Wash with soap and water. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. If skin irritation or a rash occurs: Get medical advice/attention. Contains epoxy constituents. May produce an allergic reaction. Keep out of reach of children. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

### Storage

Store in a dry and cool place. Not damaged by freezing. If frozen, warm to room temperature.

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.