

	VITAL TECHNICAL SDN. BHD.	 
	Technical Data Sheet	
	VT-512 Multi Purpose Epoxy	

Issuance date: 31/10/2016

Revision date: 01/08/2021

Revision No.: 21-01

Product Description

Multi Purpose Epoxy is 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.

Directions





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) onto any discardable 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.

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Technical Data:

Base	Part A :	Epoxy resin
	Part B :	Polyamide hardener
Appearance	Part A :	Clear liquid
	Part B :	Slightly yellowish clear liquid
Viscosity	Part A :	6,000 - 12,000 cPs
	Part B :	35,000 - 45,000 cPs
Density	Part A :	approximately 1.16 g/mL (9.7 lb/gal)
	Part B :	approximately 0.98 g/mL (9.4 lb/gal)
Mix ratio (R:H)	by volume :	1:1
Hardness	:	75 - 85
Application temperature	:	15 - 35 °C (59 - 95 °F)
Working time	:	2 hours (depending on the adhesive amount and temperature)
Set time	:	3 hours
Time to handling strength	:	8 hours
Time to full strength	:	24 hours
Lap Shear Strength	:	

Curing Hour	N/mm ²
8 hours	3.1
18 hours	11.5
1 day	14.4

Shelf life : 24 months

Order information

Product Code	Content	Carton Quantity
VT-512200	200 g	50 sets
VT-512450	450 g	24 sets
VT-512900	900 g	12 sets
VT-5121K8	1.80 kg	6 sets

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 will not 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.

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