


	VITAL TECHNICAL SDN. BHD.	  
	Technical Data Sheet	
	VT-510 All Purpose Structural Epoxy	

Issuance date: 31/10/2016

Revision date: 01/08/2021

Revision No.: 21-01

Product Description

All Purpose Structural 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 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 (red) and hardener (yellowish white) onto 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 severe skin burns and eye damage. 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. 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. Contain 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
Color	Part A :	Red
	Part B :	Light teak
	(After mix) :	Light red
Viscosity	Part A :	1,750,000 cPs
	Part B :	500,000 cPs
Specific gravity	Part A :	1.80
	Part B :	1.73
Mixing ratio (by volume) :		1:1
Hardness :		80
Application temperature :		15 - 35 °C (59 - 95 °F)
Working time :		45 minutes
Set time :		90 minutes
Time to full strength :		24 hours
Lap shear strength :		

Curing hour	N/mm ²
6 hours	7.6
16 hours	11.2
1 day	14.2

Shelf life : 24 months

Order information

Product Code	Content	Carton Quantity
VT-510300	300 g	50 sets
VT-510700	700 g	24 sets
VT-5101K4	1.40 kg	12 sets
VT-5102K8	2.80 kg	6 sets

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