

VITAL TECHNICAL SDN. BHD.

Technical Data Sheet

VT-500 Epoxy Mortar



Issuance date: 31/03/2008

Revision date: 01/08/2021

Revision No.: 21-01

VT-500 Epoxy Mortar

APPEARANCE Grey mortar (Resin) Black mortar (Hardener)

PACKAGING 5.0 kg/ set

SHELF LIFE 24 months

STORAGE

Provided the adhesive is stored dry and cool in air-tight containers, the storage stability will be at least 24 months (before mixing) from day of delivery.

APPLICATION

TEMPERATURE 20 °C – 40 °C

-		
	-	VT-SOOR

DESCRIPTION

VT-500 Epoxy Mortar is a solvent-free, thixotropic 2-component adhesive and repair mortar, based on a combination of epoxy resins and specially selected high-strength fillers. It features high-strength, high-modulus, moisture-tolerant properties for structural purposes.

TECHNICAL	Main ingredients : Epoxy resin (Part A) : Polyamine hardener (Part B)				
DATA	Mixing ratio (Part A : Part B)	: 2 : 1 (by volume)	,		
	Flexural strength	: 20 – 30 N/mm ² ASTM C580-0			
	Compression strength	: >55.0 N/mm²	ASTM C579-01		
	Shore D hardness				
	(Cylindrical sample; diameter = 51 mm; thickness = 3 mm)	: 60 – 80 ASTM D22			
	Working time at 25 °C	: ~45 minutes			
	100% curing time at 25 °C	: 24 hours			
	Solid content : 100%				
	Reinforce structural bonding of concrete, masonry, metals, wood, anchoring of grout bolts dowels, vertical and overhead. As a patching mortar for concrete, stone, ceramics, morta plasterwork, steel, iron, aluminium, wood, wood-fibre chip board, asbestos cemen polyester, epoxy and glass. Repair of joint corners and be a rigid connection of narror joint.				
ADVANTAGES	 Application on dry or damp concrete surfaces Can be applied on vertical and horizontal surfaces Good workability and excellent adhesive strength to various materials Non-flammable Fast curing High mechanical strength High abrasion and impact resistance Excellent toughness Excellent chemical resistance Shrinkage free Component of different colors, therefore good control of homogeneity during mixing 				
APPLICATION DIRECTION	 Surfaces must be clean, free of dirt, grease, oil and other surface contaminations. It may be dry or damp, but free of standing water. Concrete should be cleaned and prepared by mechanically abrade the surface with needle gun, wire brush, sandblast or grind. For metal surface, it should be cleaned thoroughly by blast cleaning and where required, apply the primer before application. Do not mix each of the Vital Mortar set partially. Prepare Part A (Resin) and Part (Hardener) according to 2:1 ratio and mix thoroughly for 3 minutes until a uniform gre color is observed. Mix using a low speed drill (400 – 600 rpm) fitted with screw typ paddle. After mixing, apply mixture within 45 minutes before cure. Apply by trowel, serrate spreader, spatula or stiff brush (minimum thickness per layer 1mm and maximu thickness per layer 30mm, on vertical it is non-sag up to 10 mm thickness). Work Vital Mortar well into the substrate, especially if the substrate is damp. Bond an subsequent materials onto Vital Mortar whilst it is still tacky. 				

	VITAL TECHNICAL SDN. BHD.		SSELICERTIFICATION	
V-tech [®]	Technical Data Sheet VT-500 Epoxy Mortar			
			SGS SGS	
Issuance date: 31/03/2	2008	Revision date: 01/08/2021	Certificate MY12/04182 Certificate MY13/04310	
VT-500 Epoxy Mortar	APPLICATION DIRECTION (Cont.)	 6. Clean up uncured material and equipment immedor alternatively, with thinner. Wash hands thore Cured Vital Mortar can only be removed by meconomic statement in the second statement of the new concrete shall be berefined. Minimum age of the new concrete shall be berefined. Do not thin VT-500 Vital Mortar. Addition of son Not resistant to high temperature of prolonged. Not for sealing cracks under hydrostatic pression. Minimum 1 mm Maximum 30 mm Non-sag on vertical surfaces up to 10 mm 	roughly with an industrial hand cleaner. hanical means. etween 3 to 6 weeks depending on the livent will prevent proper cure. periods. ure at time of application.	
	CAUTION	Contains epoxy resin and polyamine hardener. May cause severe eye and skin irritation. Avoid prolonged contact with eyes or skin. In case of eye contact, flush with water for 15 minutes and seek medical attention immediately. In case of skin contact, wipe off and wash with soap and water.		
	LEGAL NOTES	Every endeavour has been made to ensure that reliable but it is given only for the guidance of our any responsibility for the loss or damage that may due to the possibility of variations of processing or outside our control. Users are advised to confirm tests.	customers. The company cannot accept y result from the use of the information, working conditions and of workmanship	