

VX Carbon Prime is a specialty epoxy two component system comprising of VX Carbon Prime Resin and VX Carbon Prime hardener. VX Carbon Prime Resin is a bisphenol-A based liquid epoxy resin and VX Carbon Prime hardener is a moderate viscosity, modified amine hardener. VX Carbon Prime system is recommended for room temperature curing. An ideal application is for priming the surface of structural elements for strengthening and retrofitting applications.

ADVANTAGES

- Simple and tolerant mixing ratio.
- Solvent Free – Low VOC.
- Moderate viscosity resin/hardener mix ensures ease of application.
- Excellent water resistance, can be used on moist surface.
- Excellent covering on substrate surface.

TECHNICAL SPECIFITACIONS: RESIN

Characteristic	Test Method	Unit	Specification
Appearance	Visual	-	Yellow
Viscosity at 25°C	ASTM D2196	cP	2000 – 4000
Density at 25°C	ASTM D891	g/cc	1.1 - 1.3
Storage life at 25°C	-	Years	1

TECHNICAL SPECIFITACIONS: HARDENER

Characteristic	Test Method	Unit	Specification
Appearance	Visual	-	Amber color
Viscosity at 25°C	ASTM D2196	cP	500 – 1200
Density at 25°C	ASTM D891	g/cc	0.92-1.0
Storage life at 25°C	-	Years	1

CAST EPOXY PROPERTIES

Description	Test Method	Units	Specifications
Tensile strength	ASTM D638	MPa	40 Min.
Flexural strength	ASTM D790	MPa	55 Min.
Flexural modulus	ASTM D790	GPa	1.5 Min.
Cured density	ASTM D792	g/cc	1.2

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PROPERTIES OF THE SYSTEM

Mix ratio	VX Carbon Prime Resin: VX Carbon Prime hardener 100 : 52 (w/w)
Mixed viscosity	1300 - 1500 cP
Pot life at 25-28°C	30 – 40 minutes
Gel time at 25-28°C	50 minutes
Tack free time at 25-28°C	3 – 4 hours
Full cure time	7 days
Adhesive strength to concrete (ASTM D7234)	>2 MPa nominal

PACKAGING

Pack sizes available: 5 Kg, 20 Kg

BATCH PREPARATION

The batches should be prepared in clean containers, avoid any type of contamination. Prepare batches in small quantities. Add the resin and hardener in the prescribed ratio and mix thoroughly for 5-7 minutes. Allow to stand the mixture for 5 minutes before application. Consume the batch within 20-25 minutes.

APPLICATION

Apply one coat of VX Carbon Prime system by roller or brush and wait until dry to apply the second coat. If necessary, apply a coat of VX Carbon Prime using a putty knife, to fill any blow holes or imperfections to the concrete or timber surfaces. Apply VX Carbon Prime by brush or Applicator roller on the surface. Ensure the entire surface to be treated is wet by Saturant. Apply one more coat if necessary. Apply VX Carbon Prime on VX Carbon Master to saturate it; remove excess resin by pressing roller on to it. Apply saturated VX Carbon Master on the surface. In case of application of more than one layer, ensure the dryness of the previous layer.

STORAGE, HANDLING AND DISPOSAL

- Storage : Store in a cool, dry place
- Shelf life : As given in the product specifications
- Handling : Use hand gloves and protective glasses
- Disposal : Dispose by incineration or as per local regulations

SAFETY INFORMATION

- Flash point >150°C
- Precautions In case of skin contact, wash with soap and water. In case of eye irritation, bathe the affected eye with running water for at least 15 minutes, and get immediate medical attention.
- Special Care The reaction is exothermic and mixture will be heated up, hence should be applied quickly after mixing (please prepare small batches of mixes)

