VEXCOLT

VX Savior Bondpaste EP

VX Savior Bondpaste EP is a specialty system for structural purposes. It is a two component system of VX Savior Bondpaste EP resin and VX Savior Bondpaste EP hardener. VX Savior Bondpaste EP Resin is a bisphenol-A based epoxy resin and VX Savior Bondpaste EP hardener is a moderate viscosity, modified amine hardener. VX Savior Bondpaste EP system is recommended for room temperature curing. An ideal application is recommended for Bonding of 'Uni-directional Fiber Laminates - VX Carbon Plate to concrete structural elements for strengthening and retrofitting applications.

ADVANTAGES

- Easy to use
- High Strength
- Thixotropic resin/hardener mix for better application.
- Excellent water resistance.
- Excellent covering of substrate surface.
- Excellent bonding to concrete.
- Impact Resistant

PACKAGING

Pack sizes available: 7.5 Kg, 15 Kg

APPLICATIONS

- Repair honeycombing concrete in horizontal, vertical or overhead.
- Dowel bars anchoring
- Sealing Crack and Fixing surface ports for crack injection
- Bedding Tiles, bridge beams or steel bridge bearings
- Surface repair of fine cracks and spalls
- As a gap filling adhesive

Technical Specifications: Resin (Part A)			
Characteristic	**Test Method**	**Unit**	**Specification**
Appearance	Visual	-	Grey color
Viscosity at 25°C	ASTM D2196	cP	Thixotropic nature
Density at 25°C	ASTM D891	g/cc	1.15 -1.35
Storage life at 25°C	-	Years	1

Disclaimer. The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual size conditions are such that no warranty in respect of merchantability of or fitness for particular purpose , nor any liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and all risks and liability in connection therewith. The information contained in the brochure may change at any time without notice.

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Technical Specifications: Hardener (Part B)			
Characteristic	**Test Method**	**Unit**	**Specification**
Appearance	Visual	-	Amber color
Viscosity at 25°C	ASTM D2196	cP	Thixotropic nature
Density at 25°C	ASTM D891	g/cc	1.1 -1.3
Storage life at 25°C	-	Years	1

Cast Epoxy Properties			
Characteristic	**Test Method**	**Unit**	**Specification**
Tensile Strength	ASTM D638 Type-1	mPa	20 min
Cured Density	ASTM D792	g/cc	1.21

Properties of the Systems	
Mix Ratio	VX Savior Bondpaste EP resin : VX Savior Bondpaste EP hardener 1,5 : 1 (w/w)
Pot life	30 - 40 minutes @ 40°C 70 minutes @ 25°C
Gel time at 25-28°C	60 minutes
Tock free time	2 - 3 hours @ 40°C 7 hours @ 25°C
Full cure time	7 days
Adhesive strength to concrete (ASTM D7234)	> 2.0 MPa nominal
Compresive strength (ASTM C579) @ 40°C	60 Mpa

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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 30-40 minutes.

APPLICATION

Apply one coat of VX Carbon Prime by roller or brush and wait until dry to apply the second coat. If necessary, apply a coat of VX Savior Bondpaste EP using a putty knife, to fill any blow holes or imperfections to the concrete or timber surfaces. Apply one layer of VX Savior Bondpaste EP 1 – 2 mm thick on both the surfaces (substrate & laminate). Apply Carbon Plate against the substrate using roller; exert a constant pressure by moving the tool both ways in the directions of the fibers.

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)

Users should refer to the Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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