

**VCOBOND EPB-5160****VCOBOND**

CONSTRUCTION CHEMICALS

**DESCRIPTION: -**

VCOBOND - EPB 5160 is a 100 % solid (solvent free), high modulus, non shrink two component epoxy resin with outstanding features.

**FEATURE / ADVANTAGE: -**

- Solvent free
- Low viscosity
- Good penetrating property in concrete
- Excellent bond strength
- Easy application
- Watertight
- Resistant to dilute alkalis, acids, aqueous salt solution & lubricants

**PHYSICAL PROPERTIES: -**

	RESIN	HARDNER
COLOR	CLEAR	CLEAR
SOLIDS	100 %	100 %
DENSITY	1.14 gm / ml	0.998 gm / ml
MIXING	2 parts	1 part
VISCOSITY	800 cps	80 cps
PACKAGING	1 LIT	0.5 LIT
GEL TIME	65-80 MIN. (77 °F)	

**APPLICATION AREAS: -**

This product is high performance epoxy adhesive, which can be used for the effective penetration bonding to many substrate materials such as concrete, steel material, ceramic, stone, wood component, and many fiber fabrics, e.g. carbon fiber, glass fiber.

It is mainly used for the strengthening and reinforcement of structural systems.

**SURFACE PREPARATION:-**

The surface must be clean, dry & free from all contaminants

All previous coating if any must be mechanically removed to the maximum extent possible.

Concrete surface must be prepared mechanically using grinding equipment to remove cement laitance & achieve an open textured surface. Weak concrete must be removed & surface defect such as honey combing must be fully exposed.

Repairs to the surface & surface leveling must be carried out using VCOBOND EPF-5910 All dust loose material must be removed before application of primer, ensure the moisture content of the surface below 4%

**DIRECTION FOR USE:-**

- **MIXING** – VCOBOND EPB-5160 Part A & Part B are supplied in a predetermined mixing ratio.
- Pour part B into Part A. Ensure that the Part B drains completely from its container.
- Mixing of the components is to be carried out with a suitable mixture at approx 150-200 rpm.
- Ensure that the two components are evenly dispersed; stir until mix is homogenous mix.
- Apply this mixture by roller or brush.
- Finish the mixture within 25 to 30 min.
- Make sure that a continuous pore free coat covers the surface.
- Apply carbon fiber fabric onto the concrete surface as designed. Leveling the surface from one end to another.
- Apply VCOBOND EPB-5160 again.
- The surface flat and no air bubble. Repeat above process from cutting carbon fiber if applying two or more layers.

**CLEAN UP:-**

Remove as much product from application equipment as possible before washing with solvent. Do not empty into drains or watercourses

**PACKING SIZE:-**

VCOBOND EPB- 5160 PART A – 1lit & 10 lit.

VCOBOND EPB- 5160 PART B – 0.5lit & 5 lit.

**COVERAGE:-**

Covers approximately 2-3 square meters per liter depending up on type of application & porosity of the surface to be treated.

**STORAGE & SHELF LIFE:-**

6 months if sealed packing and if stored in cool dry place in shaded area.

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**PRECAUTION: -**

While working with VCOBOND materials safety goggles, gloves and safety cloths should be worn at all times. Also observe container labels and instructions in VCOBOND catalog. In case one of component comes in contact with skin wash thoroughly with soap and water adequate ventilation in volume and pattern should be provided in working area. Further precaution emergency showers and eye wash stations.

**LEGAL NOTES:-**

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