



# 6.0 HIGH PERFORMANCE EPOXY PRODUCT DATA SHEET

## Company Information

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\*In the case of an emergency, please call 911.

## Product Information

This product is a high solids epoxy coating with two components, a resin and a hardener. Both components are clear, but can be pigmented with V-8 6.0 HP Epoxy Pigment to attain a preferred color. There are 12 pigment choices. The V-8 6.0 HP Epoxy is used for medium to heavy mil thickness applications and should be applied to a concrete substrate that has a compressive strength of at least 3500 psi at 28 days and has a minimum of 250 psi in tension at the time of application.

## Areas of Application

V-8 6.0 High Performance Epoxy is designed for concrete floors that are exposed to daily abuse such as scratches or chemical spills. The V-8 6.0 HP Epoxy is a two coat application that can range from 12 – 20 mils thick; it is easy-to-clean and has a smooth surface.

## Advantages

- Low odor
- High solids
- High gloss finish
- Good clarity and color retention
- Excellent chemical resistance
- Excellent abrasion resistance
- Medium to high build application
- Meets USDA standards for incidental food contact
- 12 color choices of V-8 6.0 Epoxy Pigment

## Directions

**Surface Prep** *Bare Concrete* - Shot blast or diamond grind floor to remove the top surface of concrete and prepare for coating. All surface contaminations such as: dust, grease, laitance, bond inhibiting impregnations, curing compounds, and waxes should be removed. The application surface must be clean, stable, and dry. Ensure that any rough areas in the floor are leveled out before installing the V-8 6.0 HP Epoxy.

*Existing coatings that have a good bond* – diamond grind surface to create a textured surface and remove all contaminants from the floor.

**Patching** Use Fast Patch and/or High Impact to fill voids and holes in the floor. Make sure you grind patches before installing V-8 6.0 HP Epoxy.

**Mixing** V-8 6.0 HP Epoxy has a limited pot life; therefore, it is important to have all the necessary materials ready before mixing. Do not over-mix in large quantities that will cure quickly in the pot. Mix each part separately to ensure a homogenous mixture before blending components together.

1. Pour Part A into the six gallon mixing bucket followed by Part B (3 gallon kits only). For 15 gallon kits, mix two Part A to one Part B in a clean mixing container. V-8 6.0 Pigment should not be included in this volume ratio.
2. Be sure not to create air bubbles in the mix. Use a low speed jiffy mixer for two to three minutes or until completely blended. The components must be mixed completely to prevent partially cured areas in the coating. Scrape the sides of the mixing vessel at least once to help prevent this from occurring.
3. With Pigment: Add 1 quart pigment to three mixed gallons of V-8 6.0 HP Epoxy. (For Safety Yellow and White, add 2 quarts to three mixed gallons). Mix in pigment for at least two minutes at a low speed.

**Installation** Temperature should be between 65 degrees F and 80 degrees F for best results. Make sure floor has been vacuumed and is clean. Close off any doors, fans, or other sources for wind that could blow dust or debris into the floor. Protect any areas that will not receive coating with plastic. Set up a mix area with plastic and card board.

**Application** Option 1  
 16 mil smooth floor – Apply 8 mils V-8 6.0 HP Epoxy (200s.f./gal) by squeegee and back roll with a 3/8” nap roller to remove squeegee marks. Make sure you do a finish roll from end to end. After first coat is dry (usually 8-10 hours), Apply second coat of 8 mils V-8 6.0 HP Epoxy (200 s.f./gal) to 16 mils (100 s.f./gal) using same technique as the first coat.

Option 2  
 60 mils high build textured floor - Apply 16 mils V-8 6.0 HP Epoxy (100 s.f./gal) by squeegee and back roll with a 3/8” nap roller to remove squeegee marks. Make sure you do a finish roll from end to end, then after 10-15 minutes broadcast Industrial sand flint until completely white. After first coat is dry (usually 8-10 hours) , clean off excess sand, vacuum, and apply 14 mils V-8 6.0 HP Epoxy (125 s.f./gal) using same technique as the first coat. Note: For a smoother floor, sand after the first coat, then apply the top coat.  
 Note: It is always good to do a test sample.

**Critical Recoat Time** After the initial coat has been applied, there is a 12-24 hour window to recoat.

**Limitations** Not designed for outdoor exterior use  
 Substrate temp. has to be at least 5°F (3°C) above the measured dew point.  
 Floor that has wet product on it must be protected from water or dampness  
 Product cannot be thinned without affecting critical recoat time.  
 Discolors where exposed to UV light over time.  
 Minimum substrate temp: 60°F (15.5°C)  
 Maximum substrate temp: 85°F (30°C)  
 Maximum relative humidity 85%  
 Verify surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% less by mass or less. Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 pounds per 1,000 ft squared per 24 hours.

**Caution** **Hazardous Materials**  
*Main path of exposure occur through ingestion, skin absorption, and inhalation. The V-8 6.0 HP Epoxy **Part A** has chemical ingredients that may contribute to these severe health effects: Burning sensation in eyes or corneal damage from exposure to the eyes, skin irritant or sensitizer; may burn skin, respiratory tract irritation or sensitization from inhalation, may be fatal if swallowed. The V-8 6.0 Epoxy **Part A** has chemical ingredients that may contribute to these possible chronic health effects: Eye pain or damage, sensitization.*  
*Main path of exposure occur through ingestion, skin absorption, and inhalation. The V-8 6.0 HP Epoxy **Part B** have chemical ingredients that may contribute to these severe health effects: This product includes components that are corrosive, eye exposure may cause intense eye tissue damage or blindness, exposure to the eyes may result in headaches, could be fatal if absorbed through the skin, if inhaled, corrosive burns may occur in respiratory passages, may be fatal if swallowed.*

**The V-8 6.0 Epoxy Part B has chemical ingredients that may contribute to these possible chronic health effects:** This product has components that may cause an allergic respiratory response, may cause allergic respiratory reaction if overexposed to the product, treat as a respiratory sensitizer, deliberate inhalation abuse may be detrimental to abusers health and may be fatal, reports have shown that permanent brain or nervous system damage may occur if from prolonged occupational and continuous overexposure to solvents, may cause eye injury and soreness, continuous and prolonged exposure may cause conjunctivitis, contains an ingredient that is a known or supposed skin sensitizer, If exposed, skin may blister or redden, possible sensitization, effects may be lasting, other potential effects are unknown.

**First Aid** *Skin Contact:* Remove any infected clothing or footwear and wash skin with soap and water for a minimum of 15 minutes. Launder any contaminated clothing before reuse and discard of shoes. Seek medical help if irritation remains. *Eye Contact:* Carefully hold eyelids away from each other while flushing eyes with water for a minimum of 15 minutes. Seek medical care immediately after flushing eyes with water. *Ingestion: Immediately seek medical attention.* Induce vomiting if swallowed. Seek medical help from a physician at once. *Inhalation:* Retreat to a well-ventilated area away from product application or open containers. If breathing is difficult, it may be necessary to give oxygen. Do not start mouth-to-mouth resuscitation if person is conscious and aware. Seek medical care immediately, and call a physician. If NOT breathing, give victim mouth-to-mouth or use an artificial respirator. Move victim to a well ventilated area with fresh air. *\*It is important to contact your physician if any of these symptoms continue.*

**Handling & Storage** Follow the necessary precautions for product handling and storage:  
*Skin-*Always wear protective clothing to cover any exposed areas. Wear neoprene or other non-porous gloves. *Eyes-*Keep product from coming into contact with eyes. To avoid exposure, wear chemical goggles if there is a possibility of contact. *Respiratory-* Use a NIOSH accepted oxygen mask if area of application is a poor ventilated space. Utilize a disinfecting respirator with organic vapor cartridge and dust or mist filter.  
*Ventilation-*Necessary for applying product in a small confined space. All ventilation gear must be explosion proof.  
  
Exposure Guidelines  
OSHA Permissible Exposure Limits (PEL's)  
ACGIH Threshold Limit Value (TLV's)  
  
Always secure container top before storing. Store product in a dry area under 120°F or 49°C away from heat, flames, or sparks.

**Clean Up** If product is accidentally released:  
Open windows or doors to ventilate the space. Avoid coming into personal contact with the product. Soak up or wipe material and place in a container for disposal. Always dispose of product according to local, state, and federal regulations. Wear an air mask or other form of breathing mask in a confined space to keep from breathing in the fumes.

**Additional Information** Call Xtreme Engineered Floor Systems before applying V-8 6.0 HP Epoxy to ensure that you are using the most complete and up-to-date Product Data Sheet, as they may be updated periodically. The applicator is responsible for their application of the product.

**Typical data**

**Pot Life @ 75°F (24°C)** 30 minutes and 50% R. H. If temperature and humidity are higher, the curing will accelerate and the pot life will be shorter.

**Cure Rate @ 75°F (24°C)** Foot traffic – 12 hours  
Light traffic – 24 hours  
Heavy traffic and/or chemical spillage – 72 hours

**Recoat time @ 75°F (24°C)** From 12-24 hours. After 24 hours, monitor recoating.

**Shelf life** 2 years in an unopened container

**Color** Clear or 12 different colors can be achieved with V-8 6.0 Epoxy

**Typical Physical Properties**

<b>Hardness (Shore D)</b>	ASTM D-2240	81-85
<b>Bond Strength</b>	ASTM D 4541	>400 psi (2.76 MPa) (100% concrete failure)
<b>Tensile Strength</b>	ASTM D 638	8100psi (55.8 MPa)
<b>Compressive Strength</b>	ASTM D 695	11,700 psi (80.7 MPa)
<b>Impact Resistance</b>	ASTM D-2794	160 in-lbs. (18.1 N-m)
<b>Abrasion Resistance</b> <i>(cs-17 wheel, 1000 cycles, 1000gm load)</i>	ASTM D-4060 Taber Abraser	30-40 mg loss
<b>Flammability</b>	ASTM D-635	Film is self-extinguishing
<b>Slip resistance</b>	Equivalent to ASTM D-2047	Passes
<b>Above typical values base on cure @ 75°F (24°C)</b>		
<b>Voc (g/l)</b>	ASTM D2369-07	26.7 g/l



**October 2011**

Xtreme Engineered Floor Systems, Inc. acknowledges that this product data sheet for the V-8 6.0 Epoxy is valid and correct to the best of our knowledge on this date of publication, October 2011. Always contact Xtreme Engineered Floor Systems, Inc. before ordering to verify if any changes have been made as this product data sheet may change without notice. We are not liable for bad installations of V-8 6.0 Epoxy and misuse of the product.