

**EPO-ROK®**  
FLOORING

**Technical Data Sheet**

**DESCRIPTION:**

A three-component, 100% solids epoxy/modified polyamine concrete floor resurfacer. This product can be placed using a screed and finished by hand troweling or power troweling.

**USES:**

Designed for overlaying new and resurfacing worn concrete floors in light to heavy duty industrial applications. Mixed and applied on the jobsite at a nominal 1/4" thickness from pre-proportioned batches, EPO-ROK® FLOORING is ready for use in less than 24 hours. Formulated to restore and protect concrete floors from the harsh effects of abrasive traffic and strong chemical spillages.

**ADVANTAGES:**

- Pre-proportioned batches for error-free job site mixing
- Protects new concrete from abuse
- Rejuvenates worn surfaces, to a smooth finish
- Resists heavy steel-wheeled traffic
- Excellent resistance to a broad range of chemicals
- Formulated for easy application
- Fast curing means reduced downtime
- Slip resistant surface reduces risk of injury on wet surfaces

**PACKAGING:**

**KITS:** EPO-ROK® Flooring is packaged in pre-proportioned units for error-free jobsite mixing and application. Batch kits include 4- triple batches, (4 containers of Resin, 4 containers of Hardener and 12 bags of aggregate).

**BULK:** Each 25-gal unit consists of one 5-gal pail of Part "H" Hardener, and four 5-gal pails of Part "R" Resin. The 275-gal unit consists of one 55-gal drum of Part "H" and four 55-gal drums of Part "R".  
**\*\*These units consist of liquids only, Epo-Rok aggregate must be purchased separately.**

**GENERAL PRODUCT DATA:**

Available Colors: Gray. Other colors available with use of UR-4 Color Add and Neutral Aggregate.

Coverage @ 1/4": 200 sq. ft. per large (4 batch) or small (12 batch) unit. Also available in bulk.

Pot Life: 20 minutes @ 75°F.

Application Methods: Screed then finish with a steel finishing trowel, power trowel or Epo-Rok™ Flat Topper

Cure Rate: 6-8 hrs. Foot Traffic  
18-24 hrs. Medium Loads  
48+ hrs. Heavy Loads or Chemical Resistance.

Shelf Life: Two years in unopened containers

**TYPICAL PHYSICAL PROPERTIES:**

<u>TYPE TEST</u>	<u>TEST METHOD</u>	<u>TYPICAL VALUE</u>
Compressive Strength	ASTM C-579	11,000 psi
Tensile Strength	ASTM C-307	1,900 psi
Flexural Strength	ASTM D-790	4,100 psi
Flexural Modulus of Elasticity	ASTM D-790	2.01 x 10 <sup>6</sup> psi
Hardness Shore D Durometer	ASTM D-2240	87-90
Thermal Coefficient of Linear Expansion	ASTM D-696	3.45 x 10 <sup>-5</sup> in/in/°F
Percent Solids by Weight	ASTM D-1644	100%
Bond Strength	ACI COM #503(pp. 1139-1141)	400+ psi
Indentation	MIL-D-3134F	No Indentation
Abrasion Resistance (CS-17 Wheel, 1000 gm load, 1000 cycles)	ASTM D-1044	0.1 gm max
Water Absorption	ASTM C-413	0.24%
Heat Resistance		150°F Continual 200°F Intermittent

*Above typical values based on 7 days cure @ 75°F*

**COVERAGE:**

**KITS:** Approximately 200 sq. ft. at a nominal 1/4" thickness per unit over relatively smooth concrete floors. Each small unit contains twelve 16.67 ft<sup>2</sup> batches and each large unit contains four 50 ft<sup>2</sup> batches. Rough, worn or pitted concrete floors will require additional material.

**BULK:**

Size Unit	Sq. feet/unit	Thickness
25-gal unit	730	1/4"
	968	3/16"

\*\*A 25 gallon unit will take 44 bags of Epo-Rok aggregate.

275-gal unit	8,000	1/4"
	10560	3/16"

\*\*A 275 gallon unit will take 480 bags of Epo-Rok aggregate

**Consult Valspar Flooring's technical services for EPO-ROK® aggregate loading.**

**ASSOCIATED PRODUCTS:**

EPO-ROK® PRIMER  
EPO-ROK® TOP DRESSING

**LIMITATIONS:**

This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the resurfacer.

Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on [www.valsparflooring.com](http://www.valsparflooring.com).

Proper material application is the responsibility of the user. Site visits made by Valspar personnel are for making technical recommendations only and not for supervising or providing quality control.

Do not apply to concrete floors less than 60 days old.

Do not apply to floors previously treated with curing and parting compounds or other coatings unless they have been completely removed by chemical or mechanical means.

Do not use on vinyl, asphalt, rubber, glazed tile, paving brick, quarry tile, Mexican tile, or similar materials.

Do not apply if the floor or air temperature is below 60°F or over 90°F or if the relative humidity is above 85%.

Do not apply over honeycombed or structurally unsound surfaces.

Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or Valspar Technical Service.

Sealed surfaces may discolor under tires due to tire plasticizer migration.

If the product is to be applied in or near areas containing food stuffs, they should be removed before the application and until the coating has fully cured and all vapors have dissipated.

Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product. Critical recoat times will also be affected.

Do not apply this product if the Primer has dried. It will be necessary to reprime the surface.

**SURFACE PREPARATION:**

In general, the surface to be resurfaced must be clean, sound, dry and above 60° F to assure a successful installation. Loose or soft concrete must be removed by scarifying, sand blasting or high pressure cleaning. Then all oil, grease, wax, laitance and other surface contaminants must first be thoroughly removed. Either chemical or mechanical methods or a combination of both should be employed to prepare the surface.

**STANDARD TESTS:**

**Refer to the standard test methods below for further information.**

ASTM D 4258-83	Standard Practice for Surface Cleaning Concrete for Coating
ASTM D 4259-83	Standard Practice for Abrading Concrete
ASTM D 4260-83	Standard Practice for Acid Etching Concrete
ASTM D 4262-83	Standard Test Method for pH of Chemically Cleaned or Etched Concrete Surfaces

**PRIMING:**

The prepared concrete floor must be allowed to dry thoroughly before beginning the mixing and application of the Primer, which always precedes the installation of the Flooring.

**MIXING:**

Before proceeding with the mixing and application of the Primer and the Flooring, the surface should be checked to make sure it is properly prepared and the temperature of the area, floor and material is above 60°F. In addition, a mixing area should be set up nearby with the necessary equipment and material ready.

NOTE: When using Neutral EPO-ROK® Aggregate first mix 2-4 oz. of Epoxy Color Add per small batch or 6-12 oz. per large batch, into the Part "R" Resin for 60-90 seconds.

1. The contents of the Part "H" Hardener is emptied entirely into the container of Part "R" resin.
2. The combination is mixed with a low speed jiffy mixer for 2 - 3 minutes.
3. The mixed components (R & H) are drained into the 5 gallon pail of the Federal EPOXY MORTAR MIXER, when using the small batch units, or the mixing vessel of the #50 EPO-ROK® MIXER when using the large batch units.
4. For small batch units, activate the timer on the EPOXY MORTAR MIXER and add within 10 seconds, one bag of Part "C" Aggregate to the mixing pail. Allow to mix for the specified time, which is from 60 to 90 seconds depending on the temperature. After mixer stops, the mixed Epoxy Flooring is dumped onto the floor or into a Federal SCREED UNIT.
5. For large batch units, activate the timer on the #50 EPO-ROK® MIXER and add within 10 seconds, three bags of Part "C" Aggregate to the mixing pail. Allow to mix for the specified time, which is from 60 to 90 seconds depending on the temperature. After mixer stops, the mixed Epoxy Flooring is dumped onto the floor or into a Valspar SCREED UNIT.
6. **For bulk units, premix all pails of Part "H" Hardener and Part "R" Resin prior to mortar batching.**

**APPLICATION:**

1. Each batch of EPO-ROK® FLOORING is evenly spread over a 16-17 sq. ft. area for small batch of 50 sq. ft. per large batch using the Valspar 24" WHEELED SCREED UNIT, in a band roughly 22" wide. When making a pass next to previously screeded material, overlap by 2".
2. Finish using a clean 3" x 12" steel finishing trowel or power trowel. The finished surface should be relatively smooth, free of trowel marks and without any process areas.

3. Whenever the EPO-ROK® FLOORING does not abut a vertical surface, the mixed product should be troweled into a chase which is a special groove cut into the concrete floor during the preparation process.

**POT LIFE:**

Approximately 20 minutes at 75°F.

**CURE TIME:**

At a cure temperature of 75°F, allow 6 hours for foot traffic and 18-24 hours for light to medium loads. For heavy fork lift traffic and chemical spillages allow 48 to 72 hours.

**CLEAN UP:**

Tools should be cleaned right away with soap and water. Solvents such xylene or UR-9 MCU THINNER can also be used. Any cured or hard material can be removed with the use of PC-46 DRY EZE.

**REFER TO MATERIAL SAFETY DATA SHEET  
FOR FURTHER SAFETY AND HANDLING  
INFORMATION.**

**See individual labels for more caution  
statements.**

**KEEP OUT OF THE REACH OF CHILDREN.**

**DISPOSAL:**

Dispose in accordance with federal, state, and local regulations. Use licensed hazardous waste company.

Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been commercially cleaned or reconditioned.

© Copyright 2006 Valspar Corporation. All rights reserved.  
Epo-Rok® is a registered trademark of Valspar Corporation.

TDS - ER Flooring | Rev 07/27/06 ly

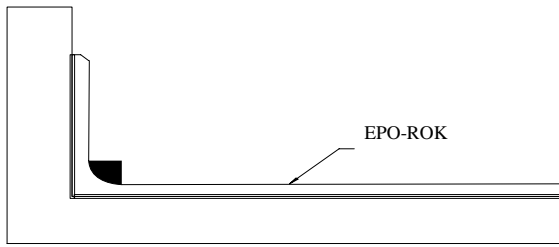


Figure 2: COVE BASE detail

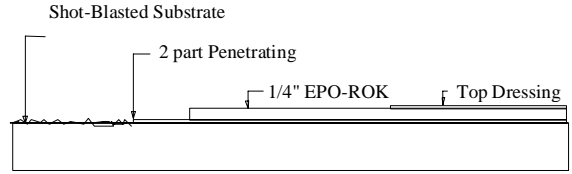


Figure 1: EPO-ROK  
 Flooring System

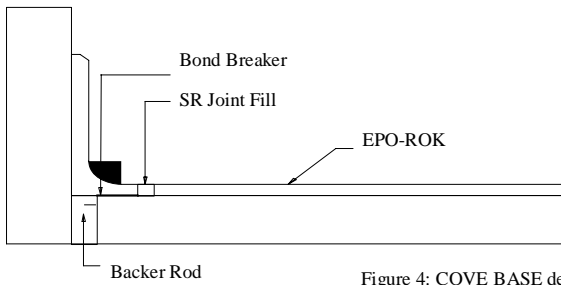


Figure 4: COVE BASE detail  
 on isolated slab

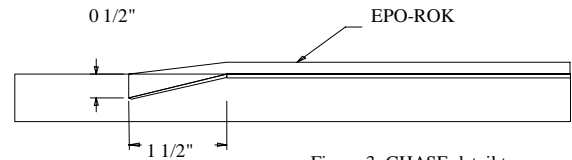


Figure 3: CHASE detail to  
 terminate flooring system

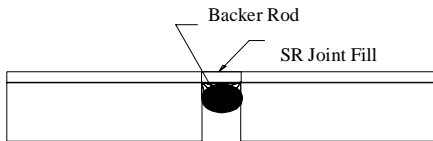


Figure 5: Normal Joint Detail

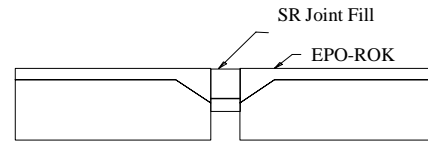


Figure 6: Deteriorated Joint  
 Detail reformed with EPO-ROK

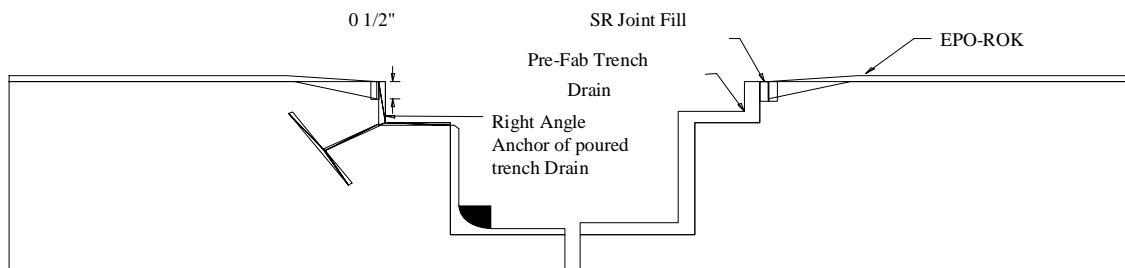


Figure 7: TRENCH DRAIN details

WARRANTY STATEMENT | IMPORTANT: The data on this sheet represent typical values obtained by the methods indicated. Since application variables are a major factor in product performance, this information should serve only as a general guide. Valspar assumes no obligation or liability for use of this information. Unless Valspar agrees otherwise in writing, **VALSPAR MAKES NO WARRANTIES, EXPRESS OR IMPLIED, AND DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR FREEDOM FROM PATENT INFRINGEMENT. VALSPAR WILL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES.** Unless Valspar agrees otherwise in writing, Valspar's only obligation for any defect in this product under any warranty that Valspar provides or under any other legal theory will be to replace the defective product, or to refund its purchase price, at Valspar's option. Revision E: 12 FEB 2002