



EPOXY PATCH KIT V165

Features

- 3-part system allows on-site mixing to the exact consistency needed
- For any high-traffic floor
- High Solids with no shrinkage
- Non Flammable
- Trowels easily

Recommended For

Properly prepared and/or primed interior concrete. V165 Epoxy Patch is designed for use on industrial plant concrete floors, loading docks, sidewalks, driveways & ramps. Concrete must be fully cured, free of curing membranes and hardening agents, and any foreign materials must be removed. Surfaces must be sound and dry.

General Description

Epoxy Patch is a 100% solids epoxy co-polymer matrix for repairing and patching interior concrete floors. It sets rapidly with extremely high initial strength and is ready for foot traffic in 5-8 hours. This easy-to-use 3-part system includes liquid part A, liquid catalyst and aggregate. **This is a three-component product that requires 1 part of the proper "A" component, 1 part of part "B" component and 1 part of the aggregate "C" component. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.**

Limitations

- This product is not for immersion service and can be used on floors when top coated with a suitable floor coating.
- This product cannot be applied over damp surfaces and must be applied between 50 °F (10 °C) and 85 °F (30 °C) with humidity of 70% or less.

Product Information

<p>Colors — Standard: Concrete Gray</p> <p>— Tint Bases: N/A Do Not Tint</p> <p>— Special Colors: Contact your retailer.</p> <p>Certifications & Qualifications: VOC compliant in all regulated areas</p> <p>The products supported by this data sheet contain a maximum of 30 grams per liter VOC / VOS (0.25 lbs. /gal.) excluding water & exempt solvents.</p> <p>Meets Performance Requirements for Army Corps of Engineers C-200</p> <p>Meets Performance Requirements for SSPC Paint 16</p> <p>Meets Performance Requirements for DOD-P-23236</p> <p>All components are Suitable for Use in USDA Inspected Facilities</p> <p>Technical Assistance Available through your local authorized independent Benjamin Moore retailer. For the location of the retailer nearest you, call 1-866-708-9180 or visit www.benjaminmoore.com</p>	<table border="1"> <thead> <tr> <th>Technical Data◇</th> <th>Concrete Gray</th> </tr> </thead> <tbody> <tr> <td>Generic Type</td> <td>Modified Amine Epoxy</td> </tr> <tr> <td>Pigment Type</td> <td>N/A</td> </tr> <tr> <td>Volume Solids (mixed as recommended)</td> <td>98% ± 1.0%</td> </tr> <tr> <td>Coverage per gallon at</td> <td></td> </tr> <tr> <td>Recommended Film Thickness</td> <td>Two Gallon Yield</td> </tr> <tr> <td>Recommended Film Thickness</td> <td>Apply up to 3/8"</td> </tr> <tr> <td colspan="2">Depending on surface texture and porosity.</td> </tr> <tr> <td>Dry Time @ 77° F</td> <td>- To Touch 3 Hours</td> </tr> <tr> <td>(25° C) @ 50% RH</td> <td>- To Recoat 8 Hours; Max 72 Hours</td> </tr> <tr> <td></td> <td>- Full Cure 7 Days</td> </tr> <tr> <td colspan="2">*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.</td> </tr> <tr> <td>Dries By</td> <td>Chemical Cure</td> </tr> <tr> <td>Dry Heat Resistance</td> <td>175 °F</td> </tr> <tr> <td>Viscosity @ 77 °F (mixed as recommended)</td> <td>Heavy</td> </tr> <tr> <td>Flash Point</td> <td>Mixed: 200 °F or greater (TT-P-141, Method 4293)</td> </tr> <tr> <td>Gloss/Sheen</td> <td>N/A</td> </tr> <tr> <td>Surface Temperature at application</td> <td>- Min. 50 °F - Max. 90 °F</td> </tr> <tr> <td colspan="2">Surface must be dry and at least 5° above the dew point</td> </tr> <tr> <td>Thin With</td> <td>Do Not Thin</td> </tr> <tr> <td>Clean Up Thinner</td> <td>V703 Xylene or V704 Epoxy Reducer</td> </tr> <tr> <td>Mixed Ratio (by volume)</td> <td>Three Part Kit (1:1:1); Two Gallon Yield</td> </tr> <tr> <td>Induction time @ 70 °F</td> <td>No Induction Time Necessary – Begin applying immediately after mixing</td> </tr> <tr> <td>Pot Life @ 77 °F</td> <td>30 Minutes</td> </tr> <tr> <td>Weight Per Gallon (mixed as recommended)</td> <td>19 lbs.</td> </tr> <tr> <td>Storage Temperature</td> <td>- Min. 45 °F - Max. 95 °F</td> </tr> <tr> <td colspan="2" style="text-align: center;">Volatile Organic Compounds (VOC)</td> </tr> <tr> <td colspan="2" style="text-align: center;">30 Grams / Liter* 0.25 LBS / Gallon*</td> </tr> <tr> <td colspan="2" style="text-align: center;">* Catalyzed</td> </tr> </tbody> </table>	Technical Data◇	Concrete Gray	Generic Type	Modified Amine Epoxy	Pigment Type	N/A	Volume Solids (mixed as recommended)	98% ± 1.0%	Coverage per gallon at		Recommended Film Thickness	Two Gallon Yield	Recommended Film Thickness	Apply up to 3/8"	Depending on surface texture and porosity.		Dry Time @ 77° F	- To Touch 3 Hours	(25° C) @ 50% RH	- To Recoat 8 Hours; Max 72 Hours		- Full Cure 7 Days	*If top coat is not applied within 72 hours abrade the surface to ensure proper inter-coat adhesion. Maximum abrasion and chemical resistance are achieved at full cure; care should be taken to prevent damage to the coating during the curing process. High humidity and cool temperatures will result in longer dry, recoat and cure times.		Dries By	Chemical Cure	Dry Heat Resistance	175 °F	Viscosity @ 77 °F (mixed as recommended)	Heavy	Flash Point	Mixed: 200 °F or greater (TT-P-141, Method 4293)	Gloss/Sheen	N/A	Surface Temperature at application	- Min. 50 °F - Max. 90 °F	Surface must be dry and at least 5° above the dew point		Thin With	Do Not Thin	Clean Up Thinner	V703 Xylene or V704 Epoxy Reducer	Mixed Ratio (by volume)	Three Part Kit (1:1:1); Two Gallon Yield	Induction time @ 70 °F	No Induction Time Necessary – Begin applying immediately after mixing	Pot Life @ 77 °F	30 Minutes	Weight Per Gallon (mixed as recommended)	19 lbs.	Storage Temperature	- Min. 45 °F - Max. 95 °F	Volatile Organic Compounds (VOC)		30 Grams / Liter* 0.25 LBS / Gallon*		* Catalyzed	
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◇ Reported values are for Concrete Gray. Contact retailer for values of other bases or colors.

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Surface Preparation

Surface preparation is the most critical portion of any successful flooring system application. All substrates must be properly prepared as follows:

Concrete must cure for a minimum of 30 days before applying floor systems. Slabs on ground or grade must have an efficient vapor barrier to prevent moisture vapor transmission. Test for moisture following ASTM D-4253 Plastic Sheet Test. Proper jointing will minimize cracking which could transmit through the coating system. Expansion joints are treated after the coating is applied. All unsound concrete must be repaired or replaced prior to coating application. Cracks should be repaired prior to coating application.

Remove all oil, grease or fats using Oil & Grease Emulsifier, following product directions. Remove all concrete curing compounds, hardeners, sealers and laitance using aggregate blasting equipment.

Epoxy floor coatings ideally bond to concrete that has a rough, sandpaper type finish which is achieved either by mechanical methods or by acid etching. Concrete Etch should be used, following product directions. Ensure acid etched surfaces are completely neutralized following etching by treating with a solution of 1 pound Baking Soda to 5 gallons of water. Once neutralized, allow the concrete to fully dry prior to applying the coating or epoxy patch.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mixing Instructions:

Remove all three components from the pail. Set the Part "C" aggregate bag aside.

- Carefully empty the entire contents of V165 Part "A" into the pail. Then carefully empty the entire contents of V165 Part "B". Scrape the sides of both cans to make sure all liquid has been added. Do Not Change the mixing ratio of parts "A" & "B".
- Using a jiffy mixer at low speed, blend this mixture for two minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material. Scrape sides of pail during the mixing process.
- Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
- After two minutes, slowly add the contents of the Part "C" aggregate and mix until smooth (typically about one to two minutes).

Do not thin this product – it is ready to use once both components are thoroughly mixed.

No induction time is required. Begin applying the epoxy immediately, as this product has a pot life of just 30 minutes. After that time, the product will rapidly thicken and solidify.

Application:

Apply the epoxy/aggregate mixture onto the floor or surface to be patched using a trowel until the desired texture and thickness is achieved. When repairing cracks or spalled concrete, apply material flush with the surrounding floor. Excess material around a repair, once cured, may be ground smooth. For best results, apply a test patch first to ensure compatibility. Do not use when humidity exceeds 70%. Apply only in temperatures between 50 °F (10 °C) and 85 °F (30 °C). This product is formulated for interior use. If product has frozen, allow to completely warm up to at 70°F before using. A vapor barrier must be used beneath the substrate to be coated to prevent loss of adhesion.

For best adhesion, first prime with V155-10 Epoxy Pre Primer.

TEST DATA	
Dry Heat Resistance	175 °F (135 °C)
CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Waste Water	Excellent
Acids	Good
Alkalis	Good
Solvents	Fair
Fuel	Fair
Acidic Salt Solutions	Good
Alkaline Salt Solutions	Good
Neutral Salt Solutions	Good
SYSTEMS RECOMMENDATIONS	
COMPATIBLE TOPCOATS	
V160 Line, V400 Line, V410 Line, V430 Line, V440 Line	
For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.	

Clean Up

Clean all application tools immediately with V703 Xylene or V704 Epoxy Reducer.

Environmental Health & Safety Information

DANGER

Harmful if swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves.

Response: Immediately call a POISON CENTER or physician if in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. If skin irritation or rash occurs get medical attention. If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. Immediately call a POISON CENTER or physician. If swallowed call a POISON CENTER or physician if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

Caution: All floor coatings may become slippery when wet. Where non-skid characteristics are desired, use an appropriate anti-slip aggregate



WARNING Cancer and Reproductive Harm–
www.P65warnings.ca.gov

This document represents hazards of the product referenced above. Refer to the individual Safety Data Sheet for hazards of the specific product you will be using.

**KEEP OUT OF REACH OF CHILDREN
FOR PROFESSIONAL USE ONLY**

**Refer to Safety Data Sheet for
additional health and safety information.**