Benjamin Moore

COROTECH HIGH PERFORMANCE

100% SOLIDS EPOXY PRE-PRIMER V155

Features

- Low viscosity easily fills voids and crevices
- Does not shrink - eliminates craters
- Chemical and fume resistant
- Extended cure time allows maximum penetration
- Seals previously coated concrete, masonry, and galvanized metal

General Description

100% Solids Epoxy Pre-Primer is formulated for use on both steel and masonry. For rusted steel, the penetrating properties and extended dry time of this two-component epoxy seal crevices and other imperfections, promoting better adhesion for subsequent coats. For prepared masonry surfaces, V155 penetrates and seals, providing an excellent foundation for subsequent coats of Corotech epoxy floor coatings. The unique, 100% solids formula of V155 forms a sealed epoxy barrier that inhibits future corrosion. **This is a two-component product that requires 3 parts of the proper "A" component mixed with 1 part of part "B" catalyst. The components are already premeasured to the proper mix ratio. No measuring required. Do not mix partial kits.**

Recommended For

Interior, Concrete, Galvanized Metal and Reinforced Steel. 100% Solids Epoxy Pre-Primer is designed for use on bare or previously coated concrete, "White Rusted" galvanized metal, and reinforcement of rusted steel. It seals loose edges and crevices, pinholes and other surface imperfections.

Limitations

- Do not apply if material, substrate or ambient temperature is below 13 °C (55 °F) or greater than 32.2 °C (90 °F). Relative humidity should be below 90%.
- Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

Product Information

Colours — Standard:

Clear (00)

— Tint Bases:

Do not tint.

— Special Colours:

Contact your retailer.

Certification:

The products supported by this data sheet contain a maximum of 100 grams per litre VOC / VOS excluding water & exempt solvents.

This product is compliant as an Industrial Maintenance Coating.

Technical Assistance:

Available through your local authorized independent Benjamin Moore® retailer. For the location of the retailer nearest you, call 1-877-711-6830, or visit www.benjaminmoore.ca

Technical Data◊		Clear
Generic Type		2-Component Epoxy
Pigment Type		N/A
Volume Solids (mixed as recommended)		Greater than 98% mixed
Practical Coverage Per 3.79 L:		Steel: 74.3 - 111.5 sq. m. (800-1200 sq. /ft.) Masonry: 46.5 - 74.3 sq. m. (500-800 sq. /ft.) Previously Coated: 111.5 - 148.7 sq. m. (1200-1600 sq. /ft.)
Recommended Film Thickness	– Wet/Dry	Steel: 1.2 – 2.0 mils Masonry: 2.0 – 3.2 mils Previously Coated: 1.0 – 1.3 mils
Dry Time @ 25 °C (77 °F)	– To Touch	12 Hours
	– To Recoat	12 Hrs. – Max: 3 Days
SERVICE TIME: Light Industrial Use: 72 Hours **Moderate to Heavy Industrial Use:** 5-7 days **Full Cure:** Approximately 7 Days *If topcoat 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		148.9 °C (300 °F)
Viscosity @ 25 °C (77 °F) (mixed as recommended)		30 – 50 seconds (#2 Zahn Cup)
Flash Point		Mixed: 57.2 °C (135 ºF) (TT-P-141, Method 4293)
Gloss/Sheen		Medium Gloss
Surface Temperature at application	– Min.	12.8 °C (55 °F)
	– Max.	32.2 °C (90 °F)
Thin With		Do Not Thin
Clean Up Thinner		Corotech® V704 Epoxy Reducer
Mixed Ratio (by volume)		3:1
Induction time @ 25 °C (77 °F)		30 Minutes
Pot Life @ 25 °C (77 °F)		3 – 4 Hours
Weight Per 3.79 L (mixed as recommended)		3.9 kg (8.5 lbs.)
Storage Temperature	– Min.	7.2 °C (45 °F)
	– Max.	35 °C (95° F)
Volatile Organic Compounds (VOC) 6 Grams / Litre* * Catalyzed		

◊ Reported values are for Clear. Contact retailer for values of other bases or colours.

Surface Preparation:

The surface to be coated must be clean, sound and dry. Freshly poured concrete must age at least thirty days before coating. All oil, grease, release agents, curing compounds, concrete hardeners, laitance and other contaminates must be removed before coating. Previous paint finishes that have deteriorated need to be removed to bare concrete. Previous paint finishes that are in sound condition need to be cleaned and screened to a uniform dull condition. To remove these contaminants, scrub the surface with Corotech® V600 Oil & Grease Emulsifier. Rinse thoroughly with clean water per label directions.

CONCRETE: Curing compounds, concrete hardeners and previous paint finishes can be removed by chemical or mechanical methods. Using mechanical method, abrade or shot blast the surface until curing compound, hardener or paint is completely removed. For laitance removal etch the bare concrete with Corotech® V620 Concrete Etch. Neutralize the acid by rinsing with a solution of 0.5 kg Baking Soda to 18.9 L of water or a 5% solution of non-sudsing ammonia and water. When properly prepared, the bare concrete surface should resemble the texture of medium grade sandpaper. Whenever acid etching and/or shot blasting methods of surface preparation are used, it is important to leave the concrete with a uniform profile texture. Over profiling the concrete surface could damage the concrete integrity and will result in reduced coverage rates of the 100% Solids Epoxy Pre-Primer and/or subsequent top coats of Epoxy finishes. After the concrete floor has been prepared and allowed to dry, apply a coat of 100% Solids Epoxy Pre-Primer at a rate not to exceed 74.3 square metres per 3.79 L. Brush or roll out "puddles" after 20 - 30 minutes. Allow at least 24 hours but not more than 72 hours dry time before applying the 100% Solids Epoxy Finish Coat.

Steel and Ferrous Metals: Although V155 is designed for use over less than ideal surfaces, performance will improve as surface preparation becomes better. The minimum surface preparation for using this sealer is a high pressure wash of at least 2500 PSI at 11.37 L per minute followed by a hand tool [SSPC-SP 2] or power tool [SSPC-SP 3] cleaning.

Previously Painted Surfaces: Can be applied over old alkyd or thermoset finishes in good condition.

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 logging onto Health Canada @ http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

Application

Mixing Instructions:

This is a two-component product that requires 3 part of the V155 “A” Component mixed with 1 part of the V155-90 “B” Component. (Mix ratio 3:1) Do not mix partial kits.

This is a two-component kit and is pre-proportioned for error free mixing. Do NOT vary from these instructions. Mix “A” & “B” separately

1. Carefully empty the entire contents of V155-90 activator into the can of V155-Part A component resin; scrape the sides of the pail of Part B to make sure all liquid has been added. Part A container is oversized to completely accept entire contents of Part B material.
2. Using a jiffy mixer at low speed, blend this mixture for three to five minutes until completely blended. Keep the mixing blade turning at a slow speed to minimize whipping air into material.
3. Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
4. Allow to induct for 30 minutes.

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

It is extremely important to remember that Epoxy Coatings have a limited pot life; therefore, it is wise to make sure sufficient manpower and correct application tools are in order prior to starting the mixing sequence. Estimated pot life is: 3 – 4 Hrs. @ 25 °C (77 °F).

Application: Apply by brush, roller or conventional spray.

Airless Spray: Apply with .009 tip and low pressure (just enough to atomize the product).

Air Spray (Preferred for appearance and film build): To minimize over spray, use low air pressure and a pot pressure of 5 – 10 PSI. **Do not apply at more than 1.5 mils per coat**. Must be top-coated within 72 hours of being tack free.

Garden Sprayer: may be used.

Brush: Natural Bristle only.

Roller: Industrial Cover with Phenolic core. 6.35 mm (¼”) nap.

NOTE: Do not allow material to remain in hoses, gun or spray equipment. Thoroughly flush all equipment with recommended thinner. No reduction is necessary. Do not apply if material, substrate or ambient temperature is below 13 °C (55 °F) or greater than 32 °C (90 °F). Relative humidity should be below 90%. Do not apply if within 5 degrees of dew point or if rain is expected within 12 hours of application.

NOTE ON SPREAD RATE: Theoretical coverage at 1 mil dry is 149.1 square metres per 3.79 litres; however, practical application is expected to be 55.8 – 74.3 square metres per 3.79 litres. Actual spread rate will vary based upon numerous factors, including texture of the substrate, application method, waste and surface porosity. The Theoretical Spread rate listed on this document has not taken into account these factors and is only based upon the volume solids of this product and the recommended wet film thickness when applied to a smooth substrate.

ADDED NOTES: All painted surfaces can be slippery. When non-kid properties are required, add a non-skid additive such as needed. All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. Where colour and gloss retention are important, top-coating will be necessary.

TEST DATA	
Steam Resistant	Yes
Dry Heat Resistance	148.9 °C (300 °F)
Wet Heat Resistance	65.6 °C (150 °F)
Adhesion (ASTM D3359)	Pass 5A
CHEMICAL RESISTANCE GUIDE (NON-IMMERSION)	
Fresh Water	Excellent
Salt Water	Excellent
Acids	Good
Alkalis	Good
Solvents	Excellent
Fuel	Good
Acidic Salt Solutions	Excellent
Alkaline Salt Solutions	Excellent
Neutral Salt Solutions	Excellent

SYSTEMS RECOMMENDATIONS

COMPATIBLE FINISHES

V220 Line, V300 Line, V330 Line, V400 Line, V410, V430 Line, V440 Line, V500 Line, V510 Line, 540 Line, and Other Alkyds, Acrylics and Moisture Cured Urethanes

For substrates other than listed above, or for usage in severe environmental conditions, please consult with Corotech® Technical Service.

Clean Up

Clean up with Corotech® V704 Epoxy Reducer.

Environmental Health & Safety Information

WARNING!

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction.

Prevention: Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/mist/ vapours/spray. Contaminated work clothing should not be allowed out of the workplace.

Response: If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists get medical attention. If on skin wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs get medical attention.

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, a small amount of clean sand may be added. Stir often during application.

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.

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