



100% SOLIDS EPOXY FLOOR COATING V430

Features

- Self-leveling, high-build 100% solids formula
- Low VOC
- Tenacious adhesion to concrete
- Outstanding durability
- Smooth gloss finish
- Suitable for use in USDA inspected facilities

Recommended For

Corotech® V430 100% Solids Epoxy Floor Coating is designed for use on bare or previously coated concrete – interior floor applications only. This product will amber and chalk if exposed to ultraviolet light.

General Description

Heavy-duty protection from a 100% solids epoxy for demanding industrial/commercial environments exposed to heavy vehicular and pedestrian traffic, constant moisture, intermittent strong chemical spills, and frequent cleaning with chemicals, steam and power washers. **This is a two component product that requires 2 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.**

Limitations

- The floor area should be maintained at a minimum surface and ambient air temperature of 50 °F and a maximum of 100 °F throughout the entire recommended dry time
- Not intended for use on vertical surfaces. Interior floor applications only

Product Information

Colors — Standard:

Clear (00), White (01), Terra Cotta (22), Sandstone (52), Silver Gray (70), Battleship Gray (75)

— Tint Bases:

Do Not Tint.

— Special Colors:

Contact your retailer.

Certifications & Qualifications:

VOC compliant in all regulated areas

The products supported by this data sheet contain a maximum of 100 grams per liter VOC / VOS (0.83 lbs/gal.) excluding water & exempt solvents.

Suitable for use in USDA Inspected Facilities

Qualifies for CHPS low emitting credit (Collaborative for High Performance Schools)

CDPH v1 Emission Certified

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

Technical Data◇

White

| | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|---------------|
| Generic Type | Two Component Epoxy | |
| Pigment Type | Titanium Dioxide | |
| Volume Solids | Component A: 96% ± 1.0% Component B: 99.7% | |
| Coverage per Gallon at | | |
| Recommended Film Thickness | 100 – 150 Sq. Ft. | |
| Recommended | – Wet | 10 – 15 mils |
| Film Thickness | – Dry | 10 – 15 mils |
| Depending on surface texture and porosity. Be sure to estimate the right amount of paint for the job. This will ensure color uniformity and minimize the disposal of excess paint. | | |
| Dry Time @ 77 °F | – To Touch | 6 Hours |
| @ 50% RH | – To Recoat | 12 – 24 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 | 300 °F | |
| Viscosity @ 77°F (mixed as recommended) | 90 – 95 KU | |
| Flash Point | 200 °F or greater (TT-P-141, Method 4293) | |
| Gloss / Sheen | Gloss (80+ @ 60°) | |
| Surface Temperature | – Min. | 50 °F |
| at application | – Max. | 100 °F |
| Surface must be dry and at least 5° above the dew point | | |
| Thin With | Do Not Thin | |
| Clean Up Thinner | Corotech® V703 (Xylene) or Corotech V704 Epoxy Thinner | |
| Mixed Ratio (by volume) | Ready Mix Colors 2:1, Clear 1.66:1 | |
| Induction time @ 77 °F | None - Use immediately after mixing | |
| Pot Life @ 77 °F (25 °C) | 30 Minutes | |
| Weight Per Gallon | Part A Component: 11.05 lbs. Part B Component: 8.50 lbs. | |
| Storage Temperature | – Min. | 40°F |
| | – Max. | 90°F |

Volatile Organic Compounds (VOC)
13 Grams / Liter* 0.11 Lbs. / Gallon*
* Catalyzed

◇ Reported values are for White. Contact retailer for values of other bases or colors.

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Surface Preparation

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 surface contaminants 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 dirt, oil, grease and form release agents, scrub the surface with Corotech V600 Oil & Grease Emulsifier. Rinse thoroughly with clean water, per label directions. Curing compounds, concrete hardeners and previous paint finishes can be removed by chemical or mechanical methods. Pick up residue and dispose of per local, state and federal requirements. Using mechanical method, abrade or shot blast the surface until curing compound, hardener or paint is completely removed. Vacuum dust before proceeding. For laitance removal and to assure a pH level of between seven and nine, acid etch using manufacturers' recommendations. When properly prepared, the bare concrete surface should resemble the texture of medium grade sandpaper (80 grit). Whenever acid etching and/or shot blasting methods of surface preparation are utilized, 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 of the coatings. For a 10 mil or greater coating application thickness, a profile of 2.5 to 3 mils is recommended.

After the concrete floor has been prepared and allowed to dry (measuring 5% or less with moisture meter), apply One Coat of V155 100% Solids Epoxy Pre-Primer at 600-800 sq. ft. per gallon (1.5 mils) following label instructions. Do not allow to puddle. Allow at least 24 hours, but not more than 72 hours dry time before applying the 100% Solids Epoxy Floor Coating. If a previous paint finish, in good condition is already in place, clean and screen the finish and proceed to the 100% Solids Epoxy Finish.

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 Informational Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

Application

Mixing Instructions:

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 V430-90 activator into the can of V430-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. Scrape sides of pail during the mixing process.
3. Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
4. Do not allow to induct – use immediately after mixing.

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: 30 Minutes @ 77 °F (25 °C)

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

Mixed Yield:

2 Gallon Kits

Clear - 1.76 Gallons
Colors - 2.00 Gallons

5 Gallon Kits

Clear - 4.42 Gallons
Colors - 5.00 Gallons

Application:

Component A mixed with Component B – pour the entire mixed contents of a kit in a bead of material in the form of a continuous ribbon onto the surface to be coated. The mixed material should not be left in the container because it will drastically shorten the pot life. 100% Solids Epoxy Finish can be applied by smooth/notched blade squeegee (which is preferable) or rolled.

SQUEEGEE APPLICATION: When using a smooth/notched blade squeegee spread the ribbon of poured material by pulling the squeegee toward the applicator and spread material at a rate not to exceed 120 square feet per gallon. Apply as evenly as possible working from left to right then back again. Do not mix less than full batch/container quantities.

ROLLER APPLICATION: Using a quality phenolic core cover, between 3/8" and 1/2" nap size, gently spread the ribbon of poured material by lightly working the material back and forth until even. Avoid overworking material; allow product to flow out and self level. Spread at a rate not to exceed 120 square feet per gallon. Avoid working back into the previously applied epoxy, particularly after ten minutes duration or color variations can occur in the lapped area. Do not mix less than full batch/container quantities. The floor area should be maintained at a minimum surface and ambient air temperature of 50 °F and a maximum of 100 °F throughout the entire recommended dry time. Do not apply if surface temperature is within 5 degrees of dew-point or if condensation or fog is expected before the product is fully dry. Not intended for use on vertical surfaces.

IMPORTANT NOTES: All high gloss surfaces can be slippery. Where non-skid characteristics are desired, hand broadcast an appropriate anti-slip aggregate into the wet film then back-roll to encapsulate. Benjamin Moore's Corotech® Anti-Slip Aggregate V630 works well for non-clear coats. All epoxy coatings will chalk and fade if applied on exterior surfaces subjected to direct sunlight. Where color and gloss retention are important, top-coating will be necessary. May stain with prolonged exposure to brake fluid and some other solvents, or in a kennel if exposed to animal urine or waste. This staining will not affect the durability or protective qualities of the coating.

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| TEST DATA | |
|----------------------------------------------------------|-------------------------------|
| Steam Resistance | Yes |
| Dry Heat Resistance | 300 °F |
| Wet Heat Resistance | 150 °F |
| Adhesion (ASTM D3359) | Pass 5B |
| Accelerated Weathering (ASTM G53) | 500 hours, no change |
| Abrasion Resistance (ASTM D4060) CS-17 Wheel, 1000g load | 0.06 g loss after 1000 cycles |
| Compression Strength (ASTM C-579) | 11,500 psi |

| 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 | |
|-------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| PRIMERS | |
| Concrete | V430-00, V155-00 |
| Aged coatings | Use Direct (Abrade as necessary) |
| 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® V703 (Xylene) or Corotech® V704 Epoxy Thinner.

Environmental Health & Safety Information

DANGER!

Harmful if swallowed

Harmful in contact with skin

Harmful if inhaled

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

May cause respiratory irritation. May cause drowsiness or dizziness

Causes damage to organs through prolonged or repeated exposure

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. In case of inadequate ventilation wear respiratory protection. 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. Call a POISON CENTER or physician if you feel unwell. Wash contaminated clothing before reuse. If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water. 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. Store in a well-ventilated place. Keep container tightly closed.

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.



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.**