



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

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 10 °C (50 °F) and a maximum of 32 °C (90 °F) throughout the entire recommended dry time
- Not intended for use on vertical surfaces. Interior floor applications only

Product Information

Colours — Standard:

Clear (00), White (01), Silver Gray (70), Sandstone (52)

— Tint Bases:

Do Not Tint.

— Special Colours:

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 litre VOC / VOS excluding water & exempt solvents.

This product is compliant as an Industrial Maintenance Coating.

This product has been approved by CFIA (Canadian Food Inspection Agency) for use in Food Processing Facilities.

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

CDPH v1 Emission Certified

Technical Assistance:

Available through your local authorized independent dealer. For the location of the dealer nearest you, call 1-800-361-5898 or visit, www.benjaminmoore.ca

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 3.79 L at	9.3 – 13.9 sq. m.	
Recommended Film Thickness	(100 – 150 sq. ft.)	
Recommended Film Thickness	– Wet	10 – 15 mils
	– 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 colour uniformity and minimize the disposal of excess paint.		
Dry Time @ 25 °C (77 °F) @ 50% RH	– To Touch	6 Hours
	– 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	148.9 °C (300 °F)	
Viscosity @ 25 °C (77 °F) (mixed as recommended)	90 – 95 KU	
Flash Point	93.2 °C (200 °F) or greater (TT-P-141, Method 4293)	
Gloss / Sheen	Gloss (80+ @ 60°)	
Surface Temperature at application	– Min.	10 °C (50 °F)
	– Max.	32 °C (90 °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 V704 Epoxy Thinner	
Mixed Ratio (by volume)	Ready Mix Colours 2:1, Clear 1.66:1	
Induction time @ 25 °C	None. Use immediately after mixing	
Pot Life @ 25 °C (77 °F)	30 Minutes	
Weight Per 3.79 L	Part A Component: 5.1 kg (11.05 lbs) Part B Component: 3.9 kg (8.5 lbs)	
Storage Temperature	– Min.	4.4 °C (40 °F)
	– Max.	32 °C (90 °F)

Volatile Organic Compounds (VOC)

13 Grams / Litre*

* Catalyzed

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

100% Solids Epoxy Floor Coating V430

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 metre), apply One Coat of V155 100% Solids Epoxy Pre-Primer at 55.8 – 74.3 sq. m. per 3.79 litres (600-800 sq. ft.) (1.5 mils) following label instructions. Do not allow to puddle. Allow at least twelve hours, but not more than twenty-four 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 logging onto Health Canada @ <https://www.canada.ca/en/health-canada/services/environmental-workplace-health/environmental-contaminants/lead/lead-information-package-some-commonly-asked-questions-about-lead-human-health.html>

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.

- Carefully empty the entire contents of V 430-90 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.
- 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.
- Care must be taken to assure both components are completely mixed in order to avoid partially cured spots in the coating.
- 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 @ 25 °C (77 °F)

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

Mixed Yield:

2 cans of 3.79 L Kits

Clear - 6.66 Litres

Colours - 7.57 Litres

5 cans of 3.79 L Kits

Clear - 16.73 Litres

Colours - 18.93 Litres

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 11.2 square metres per 3.79 litres. Apply as evenly as possible working from left to right then back again. After ten minutes, roll with a porcupine roller to remove excess air bubbles. Do not mix less than full batch/container quantities.

ROLLER APPLICATION: Using a quality phenolic core cover, between 9.5 mm – 12.7 mm (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 11.2 square metres per 3.79 litres. Avoid working back into the previously applied epoxy, particularly after ten minutes duration or colour 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 10 °C (50 °F) and a maximum of 32.2 °C (90 °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 colour 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.

TEST DATA	
Steam Resistance	Yes
Dry Heat Resistance	148.9 °C (300 °F)
Wet Heat Resistance	65.6 °C (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

100% Solids Epoxy Floor Coating V430

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 V704 Epoxy Thinner.

Environmental Health & Safety Information

DANGER!

Causes severe skin burns and eye damage

May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

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. Do not breathe dust/fume/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. Do not eat, drink or smoke when using this product.

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. Immediately call a POISON CENTER or physician. If swallowed 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 the appropriate anti-slip aggregate

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.**