



Benjamin Moore®

**COROTECH®**

HIGH PERFORMANCE

## Flooring Systems Product Guide





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## Commercial Flooring Systems

Benjamin Moore® Corotech® High-Performance Flooring Systems are designed for application by professionals in commercial and industrial environments, as well as in select residential spaces. These products enhance appearance and provide lasting protection for cleaner, safer, brighter and more productive environments.

This **Flooring Systems Product Guide** will help you choose the right Corotech product for different projects and needs. Your Benjamin Moore retailer or specialty coatings representative can assist you further or guide you through unique project considerations, including the most important part of the flooring process – thorough and effective preparation.

# Prep & Repair

## V600 Oil & Grease Emulsifier

**Usage:** Concentrated cleaner and degreaser, extremely effective in lifting, removing and capturing oil, grease, fats and animal by-products.

**Features:**

- Concentrated -- mixes with water for heavy duty or light cleaning
- Penetrates deep to "lift out" residue
- Easily rinsed or vacuumed up with a wet/dry vacuum

**Data:**

Contains	Surfactant/Emulsifiers
Spread Rate/3.79 L	9.3 sq. m. (100 sq. ft.)
Mixing Ratio	6:1 Heavy Duty 15:1 Light Cleaning
Dwell Time	15-30 min.

## V165 Epoxy Patch

**Usage:** A 100% solids epoxy co-polymer matrix formulated for repairing and patching concrete floors. It is a rapid-setting compound which can be mixed to a trowelable or a self-levelling slurry.

**Features:**

- Odourless with excellent adhesion
- Superior bond strength and excellent abrasion resistance
- Rapid set -- foot traffic in 8 hrs.
- Non-shrinking, can be feather edged

**Data:**

Product Type	Epoxy
Vol solids (mixed)	100%
Film Thickness	0.32 cm DFT
Coverage	2.3 sq. m. (25 sq. ft.)
Pot Life 25 °C	30 mins.
Dry Time 25 °C	To touch, 3 hrs. Recoat, 8 hrs.

## V620 Concrete & Masonry Etcher

**Usage:** Concentrated acid etching solution that is effective in profiling, opening and neutralizing concrete to improve coating penetration and adhesion.

**Features:**

- Mixes with water
- Contains extenders for even coverage and profile
- Contains inhibitor to help prevent attack of metal equipment and drains
- Removes laitance
- Neutralizes alkalinity

**Data:**

Contains	Phosphoric Acid
Spread Rate/3.79 L	9.3 sq. m. (100 sq. ft.)
Mixing Ratio	3:1
Dwell Time	5-20 min.

# Colours & Bases

COLOURS	CODE	100% Solids Epoxy		Aliphatic Acrylic Urethane Epoxy		Waterborne Urethane S/G		Waterborne Urethane Gloss	
		Fast Dry Polyamide Epoxy	Polyamide Epoxy	Waterborne Epoxy Floor Coating	Aliphatic Amine Epoxy	Aliphatic Acrylic Urethane Gloss	Waterborne Urethane S/G	Waterborne Urethane Gloss	
		V400	V410	V430	V440	V500	V510	V540	
Clear	00	*		*	*	*		*	
White	01		*	*	*	*		*	
Safety Yellow	10	*							
Safety Red	20	*							
Silver Gray	70	*		*	*				
Battleship Gray	75	*			*				
Black	80	*				*			
Pastel Base	85				*				
Tint Base/Tintable White	86	*			*	*	*		
Deep Base	87	*			*	*	*		
Clear Base	88	*			*	*	*		
Catalyst & Gloss Catalyst	90	*	*	*	*	*	*	*	
Semi-Gloss Catalyst	91	*							
Hi-Build Catalyst	92	*							

# Primer / Sealer

## Penetration for Topcoat Adhesion

### Product

#### V155 100% Solids Epoxy Pre-Primer



#### 2-Component Epoxy

A superior low-viscosity, clear penetrating primer that is an important first step for proper prep of bare concrete for heavy duty and moderate industrial/commercial flooring systems. Also versatile as a "barrier coat" on previous finishes to ensure bonding of subsequent recoat.

- Topcoat with most products: epoxies, urethanes, acrylics
- Does not shrink
- Displaces moisture as it penetrates and seals
- Prevents outgassing and pinholes

### Application Notes

Self-levelling 98% solids formula may be sprayed, brushed or rolled.

### Dry Time 25 °C (77 °F)

To touch, 12 hrs. Recoat, 16 hrs. (max 72 hrs.).

### VOC (mixed)

6 g/L (0.05 lbs./gal.)

### Custom Colours

Clear only

### Vol Solids (mixed)

98%

### Technical Data

Specular Gloss	60+ @ 60°
Mixing Ratio	3:1
Induction Time 25 °C (77 °F)	30 mins.
Pot Life 25 °C (77 °F)	3-4 hrs.
Wet Film Thickness	1.0 - 1.5 mils
Dry Film Thickness	1.0 - 1.5 mils
Practical Coverage (masonry)	46.5 - 74.3 sq. m. (500 - 800 sq. ft.)/3.79 L

#### V156 Moisture Tolerant Quick Set Epoxy Sealer



#### 2-Component Polyamide Epoxy

A fast-dry, waterborne polyamide epoxy formulated to provide superior chemical, abrasion and impact resistance when used on concrete floors. This product can be used as a stand-alone clear finish (two coats) or as a base coat for high-performance floor systems. The highly cross-linked formula is suited for floors subject to severe conditions.

- Quick-set formula that can tolerate some moisture in the masonry
- Water clean-up

Brush and roll, or squeegee with back roll.

To touch, 3 hrs. Recoat, 5 hrs. (max 72 hrs.). When used as stand-alone sealer: light use, 3 days; moderate to heavy use, 5-7 days.

<100 g/L (0.82 lbs./gal.)

Clear only

31%

Specular Gloss	45-55 @ 60°
Mixing Ratio	4.3:1
Induction Time 25 °C (77 °F)	none
Pot Life 25 °C (77 °F)	1 hr.
Wet Film Thickness	4.5 - 5.0 mils
Dry Film Thickness	1.4 - 1.6 mils
Theoretical Coverage	27.9 - 32.5 sq. m. (300 - 350 sq. ft.)/3.79 L

#### V440 Waterborne Amine Epoxy



#### 2-Component Amine Adduct Epoxy

Moderate- to heavy-duty protection in commercial environments exposed to frequent foot traffic and occasional traffic of lightweight rubber-tired vehicles, intermittent spillage of mild chemicals, occasional steam cleaning and powerwashing.

- Water cleanup/low odour
- Easy application with excellent adhesion
- Very good resistance to water and chemicals
- Fast dry

Ideal for application following acid etching; tolerant of light levels of moisture. Spray, roll or brush.

To touch, 2 hrs. Recoat, 8 hrs. Full cure, 3-5 days.

< 250 g/L (2.09 lbs./gal.)

Available (universal colorant)

42%

Specular Gloss	85+ @ 60°
Mixing Ratio	3:1
Induction Time 25 °C (77 °F)	30 mins.
Pot Life 25 °C (77 °F)	3 hrs.
Wet Film Thickness	3.5 - 4.5 mils
Dry Film Thickness	1.5 - 1.9 mils
Theoretical Coverage	32.5 - 41.8 sq. m. (350 - 450 sq. ft.)/3.79 L

#### V400 Polyamide Epoxy



#### 2-Component Polyamide Epoxy

A medium-build epoxy for moderate- to heavy-duty performance in commercial/industrial environments exposed to heavy foot traffic and occasional traffic of lightweight rubber-tired vehicles, intermittent spillage of mild to heavier chemicals, occasional steam and chemical cleaning.

- Highly cross-linked film
- Resists many chemicals and solvents
- Suitable for immersion

Can be applied over most existing industrial coatings in good condition. Spray, roll or brush.

To touch, 6 hrs. Recoat, 10-12 hrs. Foot traffic, 24-48 hrs. Full cure 7 days.

<340 g/L (2.83 lbs./gal.)

Available (IM colorant)

64% Gloss, 63% Semi-Gloss, 67% Hi Build

Specular Gloss	Gloss 85+ @ 60°
Mixing Ratio	Semi-Gloss 40-50 @ 60°
Induction Time 25 °C (77 °F)	Hi Build 65-75 @ 60°
Pot Life 25 °C (77 °F)	1:1
Induction Time 25 °C (77 °F)	30 mins.
Pot Life 25 °C (77 °F)	7 hrs.
Wet Film Thickness	Gloss/SG 4.0 - 5.0 mils
Dry Film Thickness	Hi Build 6.0 - 8.0 mils
Theoretical Coverage	Gloss/SG 2.5 - 3.1 mils
Hi Build	4.0 - 5.2 mils
Theoretical Coverage	Gloss/SG 29.7 - 37.2 sq. m. (320 - 400 sq. ft.)/3.79 L
Hi Build	18.6 - 24.6 sq. m. (200 - 265 sq. ft.)/3.79 L

# Epoxy

## High-Performance Build and Protection

#### V410 Fast Dry Polyamide Epoxy



#### 2-Component Polyamide/ Amine Epoxy

A high-build epoxy for moderate- to heavy-duty performance in commercial/industrial environments exposed to heavy foot traffic and occasional traffic of lightweight rubber-tired vehicles, intermittent spillage of mild to heavier chemicals, occasional steam and chemical cleaning.

- Rapid return to service (24 hrs. at 25 °C) with high build
- Can be applied down to 0 °C, with 5-day cure

Spray, roll or brush.

To touch, 3-4 hrs. Recoat, 8 hrs. to a maximum of 21 days. Full cure 24 hrs.

<250 g/L (2.09 lbs./gal.)

White only

72%

Specular Gloss	Gloss 85+ @ 60°
Mixing Ratio	1:1
Induction Time 25 °C (77 °F)	30 mins.
Pot Life 25 °C (77 °F)	3 hrs.
Wet Film Thickness	3.4 - 4.3 mils
Dry Film Thickness	1.5 - 1.9 mils
Theoretical Coverage	34.8 - 39.5 sq. m. (375 - 425 sq. ft.)/3.79 L

#### V160 Epoxy Mastic



#### 2-Component Polyamide Epoxy

A high-build epoxy that yields heavy-duty protection in harsh industrial/commercial environments exposed to heavy equipment and foot traffic, constant moisture, intermittent strong chemical spills, and frequent cleaning with chemicals, steam and power washers.

- High-build film
- Suitable for immersion
- Outstanding abrasion resistance

Spray, roll or brush.

To touch, 4 hrs. Recoat, 12 hrs. to a maximum 6 weeks. Full cure, 3-4 days.

<200 g/L (1.66 lbs./gal.)

Available (IM colorant)

78%

Specular Gloss	45-55+ @ 60°
Mixing Ratio	1:1
Induction Time 25 °C (77 °F)	15 mins.
Pot Life 25 °C (77 °F)	2 hrs.
Wet Film Thickness	6.4 - 10.3 mils
Dry Film Thickness	5.0 - 8.0 mils
Theoretical Coverage	13.9 - 23.2 sq. m. (150 - 250 sq. ft.)/3.79 L

#### V430 100% Solids Epoxy



#### 2-Component Cycloaliphatic Amine Epoxy

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.

- Self-levelling 100% solids formula
- Very low VOC
- Tenacious adhesion to concrete
- Outstanding durability
- Smooth gloss finish

Apply with a squeegee and spiked shoes, with back roll

To touch, 6 hrs. Recoat, 12-24 hrs. Full cure, 7 days.

13 g/L (0.11 lbs./gal.)

Ready mix colours only

100%

Specular Gloss	80+ @ 60°
Mixing Ratio	Colours 2:1
Induction Time 25 °C (77 °F)	Clear 1.66:1
Pot Life 25 °C (77 °F)	None
Wet Film Thickness	30 mins.
Wet Film Thickness	8 - 15 mils
Dry Film Thickness	8 - 15 mils
Theoretical Coverage	9.3 - 18.6 sq. m. (100 - 200 sq. ft.)/3.79 L

#### V540 Waterborne Urethane



#### 2-Component Acrylic Polyurethane

A durable "showroom" finish delivering performance and appearance in industrial/commercial environments exposed to heavy-tired vehicle traffic, strong chemicals, and exterior weather conditions.

- Water cleanup
- Low odour
- Good durability

Spray, roll or brush

To touch, 1 hr. Recoat, 3 hrs. to 28 days. Full cure, 4-7 days.

<100 g/L (0.83 lbs./gal.)

Clear and white only

53% (white) / 43% (clear)

Specular Gloss	70+ @ 60°
Mixing Ratio	3.75:1
Induction Time 25 °C (77 °F)	15 mins.
Pot Life 25 °C (77 °F)	1 hr.
Wet Film Thickness	White 2.8 - 3.7 mils
Wet Film Thickness	Clear 3.5 - 4.6 mils
Dry Film Thickness	White 1.5 - 2.0 mils
Dry Film Thickness	Clear 1.5 - 2.0 mils
Theoretical Coverage	White 39.5 - 52.6 sq. m. (425 - 566 sq. ft.)/3.79 L
Theoretical Coverage	Clear 32.0 - 42.7 sq. m. (345 - 460 sq. ft.)/3.79 L

# Urethane

## High-Performance Appearance and Protection

#### V580 Moisture Cure Urethane



#### 1-Component Aromatic Moisture Cure Urethane

A high-solids, moisture cured urethane intended for use on floors exposed to moderate to extreme conditions. It provides excellent abrasion and impact resistance as well as chemical resistance, making it an excellent choice for flooring areas in warehousing and processing environments.

- Single-component product uses air moisture to crosslink
- Exposure to sunlight will cause yellowing

Spray, roll or brush.

To touch, 1 hr. Recoat, 16-72 hrs. Return to service, 8 hrs.

< 340 g/L (2.83 lbs./gal.)

Clear only

56%

Specular Gloss	80+ @ 60°
Mixing Ratio	none
Induction Time 25 °C (77 °F)	none
Pot Life 25 °C (77 °F)	use within 6 hrs. after exposure to air
Wet Film Thickness	2.7 - 3.7 mils
Dry Film Thickness	1.5 - 2.0 mils
Theoretical Coverage	41.8 - 55.7 sq. m. (450 - 600 sq. ft.)/3.79 L

#### V500/510 Aliphatic Acrylic Urethane



#### 2-Component Aliphatic Acrylic Polyurethane

The ultimate in heavy-duty performance and appearance for demanding industrial and commercial environments that need a "showroom" finish. Stands up to constant traffic from heavy rubber-tired vehicles and wheeled equipment, the harshest solvents and chemicals, and exterior weather conditions.

- Superior chemical and solvent resistance (including Skydrol hydraulic fluid)
- Outstanding gloss and colour retention
- Outstanding abrasion and impact resistance

Spray, roll or brush; no induction time

To touch, 2 hrs. Recoat, 8 hrs. - 72 hrs. Full service, 24-48 hrs.

Gloss <250 g/L (2.09 lbs./gal.), Semi-Gloss <340 g/L (2.83 lbs./gal.)

Available (IM colorant)

V500 gloss 72% / V510 semi-gloss 62%

Specular Gloss	Gloss 85+ @ 60°
Mixing Ratio	SG 55-65 @ 60°
Induction Time 25 °C (77 °F)	4:1
Pot Life 25 °C (77 °F)	15 mins.
Wet Film Thickness	2-3 hrs.
Dry Film Thickness	3.5 - 5.0 mils
Dry Film Thickness	Gloss 2.5 - 3.6 mils
Theoretical Coverage	SG 2.2 - 3.1 mils
Theoretical Coverage	29.7 - 41.8 sq. m. (320 - 450 sq. ft.)/3.79 L



## Commercial Flooring Systems

### Printed Literature

Corotech Industrial Ready-Mix  
Colour Selections Card

Corotech Industrial Custom  
Colour Selections Card

Corotech Product Guide  
(includes all products)

Corotech Floor Systems  
*Prep, Application &  
Troubleshooting Guide*

### MCode

M2430237CE

M2440594CE

M2430234CE

M2440615CE

### Online Tools

[benjaminmoore.ca](http://benjaminmoore.ca)

- Technical data sheets
- Safety data sheets
- Guide Specs (CSI format)
- Floor Systems *Prep, Application & Troubleshooting Guide*
- MPI info by product

### In-Person Support

- Benjamin Moore® retailers (locate the retailer nearest you at [benjaminmoore.ca](http://benjaminmoore.ca))
- Call 877-711-6830

Add value to commercial, industrial and select residential spaces by protecting and beautifying the floors. From clear high-build epoxies that give depth and beauty to natural concrete, to pigment-ed thinner films that roll on with no special tools, Benjamin Moore® Corotech® flooring products enhance appearance and provide lasting protection.

This *Flooring Systems Product Guide* will help you choose the right Corotech product for your flooring project. For additional expert guidance, talk to your Corotech retailer or reference the tools and literature listed above.

To learn about the entire portfolio of Corotech high-performance primers, epoxies, urethanes and more, visit [benjaminmoore.ca](http://benjaminmoore.ca) or talk to your retailer.