



FLOWCHEM

- ▶ Protect aggressive environments subject to chemical, thermal or mechanical attack with Flowcrete's range of low shrink vinyl ester resin lining and coating systems.

Welcome to Flowcrete Americas

Flowcrete is a world leader in the manufacture of seamless resin flooring systems for application in both industrial and commercial environments.

Flowcrete Americas has a fresh approach to flooring and is constantly looking to introduce world-class systems, which offer clients a number of performance advantages while at the same time make floors much more than a surface to walk on.

Flowcrete Americas is dedicated to innovating sustainable flooring materials and using the earth's natural resources responsibly across all operations to ensure a more positive impact on the construction industry and a greener world at our feet.

The company's headquarters in Texas serves expanding business opportunities across the continent including the USA, Canada, Latin America and the Caribbean. With key clients including Coca Cola, Ocean Spray, Cargill, Nestlé, Frito Lay, Diageo and Samuel Adams, Flowcrete Americas continues to develop a significant presence in the Americas' polymer flooring market.

Anti-Corrosion Coatings & Linings



Damage caused by corrosive materials may not always be visible to the eye, but can lead to structural failure or public safety risks.

Anti-corrosion coatings and linings protect metal and concrete surfaces and structures, acting as a barrier to inhibit the contact between chemical compounds or corrosive materials.

Corrosion resistant coatings also provide enhanced temperature and abrasion resistance as well as reduced shrinkage, durability and excellent bond strength - all without cracking or crazing.

Flowchem is a range of seamless anti-corrosion coating and lining systems designed to offer superior protection against highly concentrated acidic, alkali and caustic materials.

Comparative Performance of Resin Chemistries

Chemical Resistance (Intermittent Spillages)*:

	CEMENT BASED	EPOXY	POLYURETHANE	VINYL ESTER
Acetic Acid - 30% at 70°F			✓	✓
Acetic Acid (glacial) - 100% at 105°F				✓
Citric Acid - 30% at 70°F		✓	✓	✓
Citric Acid - 100% at 210°F				✓
Hydrochloric Acid - 10% at 70°F			✓	✓
Hydrochloric Acid - 37% at 175°F				✓
Lactic Acid - 10% at 70°F		✓	✓	✓
Lactic Acid - 100% at 210°F				✓
Nitric Acid - 10% at 70°F			✓	✓
Nitric Acid - 50% at 70°F				✓
Sodium Hydroxide - 50% at 70°F	✓	✓	✓	✓
Sodium Hydroxide - 50% at 175°F				✓
Sulfuric Acid - 20% at 70°F		✓	✓	✓
Sulfuric Acid - 75% at 70°F				✓
Ethanol, Butane and Methanol	✓		✓	✓
Sugars		✓	✓	✓

Service Conditions:

	CEMENT BASED	EPOXY	POLYURETHANE	VINYL ESTER
Steam Cleaning	✓		✓ (3/8")	✓
Maximum Temperature	390°F	140°F	250°F (3/8")	290°F - 350°F
Ultimate Compressive Strength	7,250 psi	8,750 psi	10,000 psi	17,500 psi

Flowchem Application Suitability



Floors



Walls & Ceilings



Structural Steelwork



Equipment Bases



Tank Linings



Trenches & Drains

*A full chemical resistance chart is available on request.

Flowchem VE RC (40 mils)

A horizontal and vertical roller applied vinyl ester coating with excellent chemical resistance.

Flowchem VE RC offers corrosion protection for concrete walls, floors, curbs, equipment bases, trenches and drains.



Temperature Resistant:

Resistant to intermittent temperatures of up to 350°F.



Chemical Resistant:

Protects against a variety of aggressive acids, solvents caustics and chemicals.



Bond Strength:

Elastomer modified resin provides superior adhesion.



Fast Cure:

Accelerated cure time, providing an operational surface in just 12 hours.



Abrasion Resistant:

Excellent abrasion and wear resistance under heavy traffic conditions.

Standard Colors:



Red



Gray

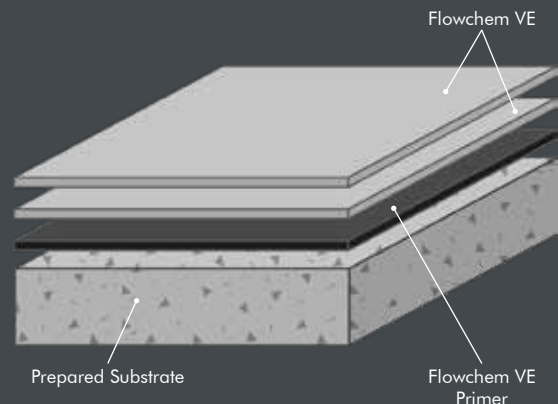
Application Suitability:

Storage and Warehousing	✓
Metal Tank Linings	✓
Dry Powder Processing	✓
Solvent Handling and Storage	✓
Plant and Battery Rooms	✓

The applied colors may differ from the examples shown. For a full color chart and samples, contact your local Flowcrete office.

Technical Profile

TEMPERATURE RESISTANCE:			
ASTM D3299	Continuous Exposure: 320°F		
	Intermittent Spills: 350°F		
COMPRESSIVE STRENGTH:			
ASTM C 579	17,500 psi		
TENSILE STRENGTH:			
ASTM D 638	5,300 psi		
FLEXURAL STRENGTH:			
ASTM C 580	8,200 psi		
BARCOL HARDNESS:			
ASTM D 2583	>35		
FLEXURAL MODULUS OF ELASTICITY:			
ASTM C 580	10.9 x 10 ⁵ psi		
ADHESION:			
ASTM D 4541	>400 psi (100% Concrete Failure)		
POT LIFE:			
45+ minutes at 75° F			
PERMEABILITY:			
ASTM E 96	0.0042 perm. -in		
SPEED OF CURE:			
	60°F	75°F	90°F
Light Traffic	18 hrs	12 hrs	8 hrs
Full Traffic	36 hrs	24 hrs	16 hrs
Full Chemical Cure	72 hrs	48 hrs	24 hrs





Performance Benefits

- | | |
|---|--|
| ✓ | Exceptional chemical resistance |
| ✓ | Low-shrink to reduce stress |
| ✓ | Withstands temperatures up to 350°F |
| ✓ | Coatings can be applied to a range of substrates |
| ✓ | Vertical systems available for tanks and silos |
| ✓ | Abrasion and impact resistance |
| ✓ | Thermal shock and cycling resistance |
| ✓ | UV stable options available |
| ✓ | Fast cure systems minimize downtime |
| ✓ | Easy to clean and maintain |

Flowchem VE BC

(60, 75 & 125 mils)

A horizontal and vertical applied vinyl ester coating containing broadcast aggregates.

Flowchem VE BC offers hardwearing corrosion protection for concrete walls, floors, curbs, equipment bases, trenches and drains.



Temperature Resistant:

Resistant to intermittent temperatures of up to 350°F.



Chemical Resistant:

Protects against a variety of aggressive acids, solvents caustics and chemicals.



Bond Strength:

Elastomer modified resin provides superior adhesion.



Fast Cure:

Accelerated cure time, providing an operational surface in just 12 hours.



Versatile:

Enhanced impact and wear resistance with a textured slip resistant profile.

Standard Colors:



Red



Gray

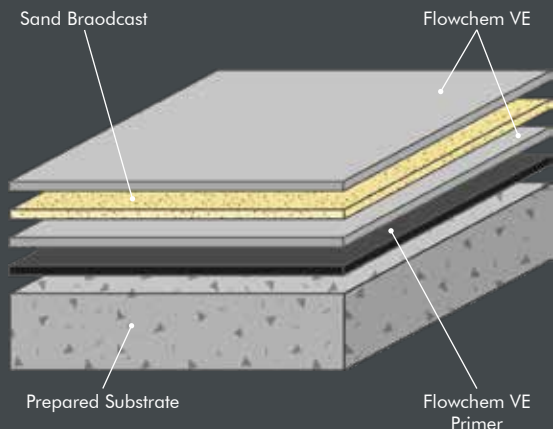
Application Suitability:

Waste Water Treatment	✓
Metal Tank Linings	✓
Liquid Processing	✓
Dry Powder Processing	✓
Solvent Handling and Storage	✓

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Technical Profile

TEMPERATURE RESISTANCE:			
ASTM D3299	Continuous Exposure: 320°F		
	Intermittent Spills: 350°F		
COMPRESSIVE STRENGTH:			
ASTM C 579	17,500 psi		
TENSILE STRENGTH:			
ASTM D 638	5,300 psi		
FLEXURAL STRENGTH:			
ASTM D 790	5,800 psi		
BARCOL HARDNESS:			
ASTM D 2583	>35		
FLEXURAL MODULUS OF ELASTICITY:			
ASTM D 790	15.3 x 10 ⁵ psi		
ADHESION:			
ASTM D 4541	>400 psi (100% Concrete Failure)		
POT LIFE:			
45+ minutes at 75° F			
PERMEABILITY:			
ASTM E 96	0.0042 perm. -in		
SPEED OF CURE:			
	60°F	75°F	90°F
Light Traffic	18 hrs	12 hrs	8 hrs
Full Traffic	36 hrs	24 hrs	16 hrs
Full Chemical Cure	72 hrs	48 hrs	24 hrs



Flowchem VE GL (125 mils)

A glassfiber reinforced horizontal and vertical applied vinyl ester coating with excellent chemical resistance.

Flowchem VE GL offers corrosion protection for concrete and metal structures subject to continuous exposure of aggressive chemicals.



Temperature Resistant:

Resistant to intermittent temperatures of up to 350°F.



Chemical Resistant:

Protects against a variety of aggressive acids, solvents caustics and chemicals.



Bond Strength:

Elastomer modified resin provides superior adhesion.



Fast Cure:

Accelerated cure time, providing an operational surface in just 12 hours.



Versatile:

Dimensionally stable, high cohesive strength and low permeability.

Standard Colors:



Red



Gray

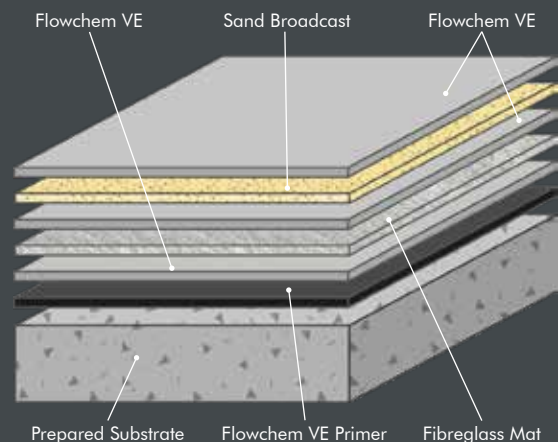
Application Suitability:

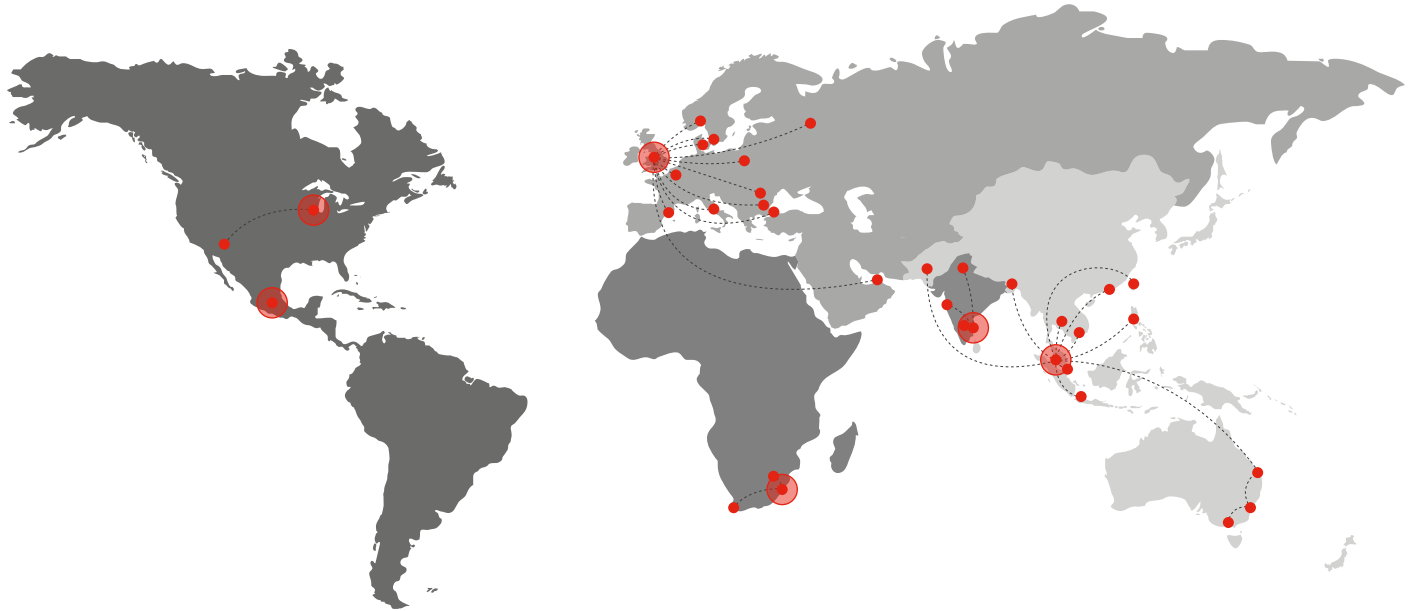
Solvent Handling and Storage	✓
Explosion Risk Area	✓
Liquid Nitrogen Handling	✓
Tanker Handling Bays	✓
Flue Gas Desulphurisation Process	✓

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Technical Profile

TEMPERATURE RESISTANCE:			
ASTM D3299	Continuous Exposure: 320°F		
	Intermittent Spills: 350°F		
COMPRESSIVE STRENGTH:			
ASTM C 579	17,500 psi		
TENSILE STRENGTH:			
ASTM D 638	10,000 psi		
FLEXURAL STRENGTH:			
ASTM D 790	22,000 psi		
BARCOL HARDNESS:			
ASTM D 2583	>35		
FLEXURAL MODULUS OF ELASTICITY:			
ASTM D 790	15.6 x 10 ⁵ psi		
ADHESION:			
ASTM D 4541	>400 psi (100% Concrete Failure)		
POT LIFE:	45+ minutes at 75° F		
PERMEABILITY:			
ASTM E 96	0.0042 perm. -in		
SPEED OF CURE:	60°F	75°F	90°F
Light Traffic	18 hrs	12 hrs	8 hrs
Full Traffic	36 hrs	24 hrs	16 hrs
Full Chemical Cure	72 hrs	48 hrs	24 hrs





Flowcrete

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