



Liquid Epoxy Coatings

The Power Behind Corrosion Prevention

Coatings for:

Rehabilitation

Directional Drilling

Girth Weld Protection

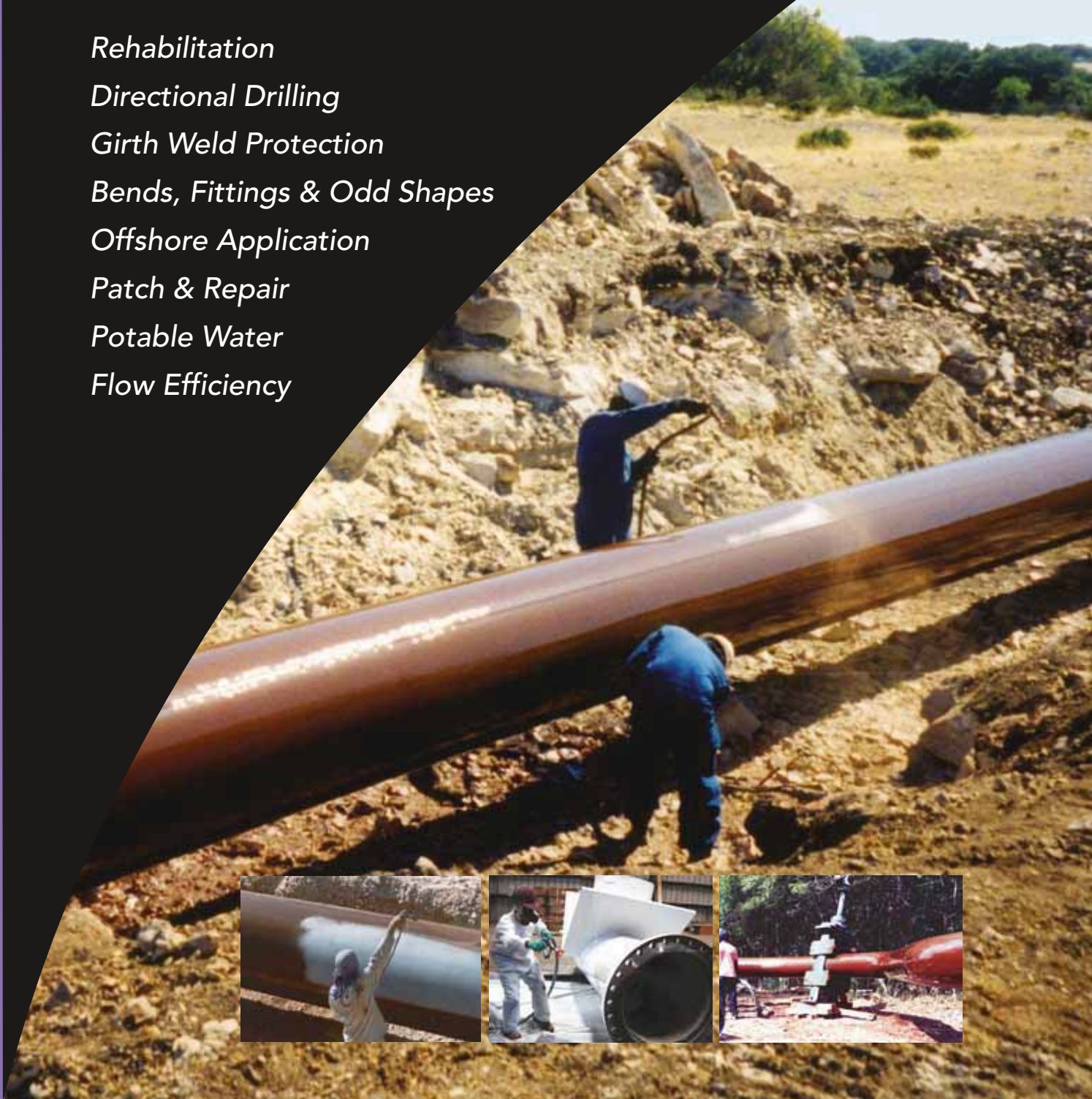
Bends, Fittings & Odd Shapes

Offshore Application

Patch & Repair

Potable Water

Flow Efficiency





Setting the Standard

Since 1990 Powercrete® epoxies have demonstrated strength and integrity as revolutionary liquid coatings for corrosion prevention in the pipeline industry. Leading scientists and researchers have further developed the Powercrete® line in response to application demands. Today, owners and contractors choose Powercrete® because they are confident in its dependable and reliable performance.

Choosing Powercrete® means you are selecting the leading liquid epoxy that has set the standard for the industry. Powercrete® provides superior adhesion and abrasion resistance to protect valuable assets. Powercrete® is impervious to soil stress and is compatible with FBE and CTE line coatings.

Powercrete® coatings are field friendly, easy to apply and cost effective. All Powercrete® formulations can be spray, roller, trowel or brush applied and are available in a variety of colors.

Lifetime Solutions For Corrosion Prevention

Manufactured by Berry Plastics Corrosion Protection Group, a leading global supplier of corrosion prevention solutions, Powercrete® offers a variety of formulae for specific applications. When applied correctly, Powercrete® will outlive the useful life of the pipe or tank structures on which it is applied.



Corrosion Prevention Coatings

- Ideal for coating girth welds, bends, fittings and elbows
- New high-build, fast setting formulations
- ID coatings for flow efficiency
- Cost effective joint coating for FBE coated pipe



Directional Drill Coatings

- Abrasion resistant overlay (ARO) applied over FBE
- Extremely high adhesion to the FBE mainline coatings
- Exceptional abrasion and impact resistance
- Flexible application in the field or in the plant



Rehabilitation Coatings

- Bell hole rehab long or short pipe sections
- Cost effective recoating solution
- Field-friendly and easy to apply
- World class manufacturer's Applicator Certification Program
- Monolithic, Resilient, impervious coating for long-term protection



Offshore Coatings

- Risers and spans for offshore structures
- Pile and splash zone protection against mechanical damage
- Long-life alternative to traditional marine paints
- High speed manual and spray application
- Proven performance in harsh marine environments



Water, Wastewater & Tank Coatings

- NSF/ANSI Standard 61 Certified for potable water
- Meets the requirements of BS: 6920 standard
- Far exceed AWWA C 210 requirements
- High build in a single pass
- Chemical resistant and non leachable



Powercrete is Protection

Powercrete® epoxies are designed to meet the requirements of the most demanding pipeline applications. With years of experience in the pipeline industry Powercrete® has established its reputation based on the following key material and performance characteristics:

- 100% solids content with no volatile organic compounds (VOCs) and no isocyanates
- Exceptional adhesion to bare steel and fusion bonded epoxy (FBE) mainline coatings (ASTM D-4541)
- Excellent cathodic disbondment resistance at ambient and maximum operating temperatures (ASTM G-8 and G-42)
- Superior resistance to water immersion including sea water and ground water over a broad pH range
- System suitable for pipelines operating at upto 150°C/302°F
- Low temperature grades of fast cured epoxy can be applied in sub-zero temperatures onto a preheated pipes
- Field friendly and cost saving formulations that are high build in a single pass and quick drying
- Outstanding mechanical properties of impact and abrasion resistance on record setting directional drills

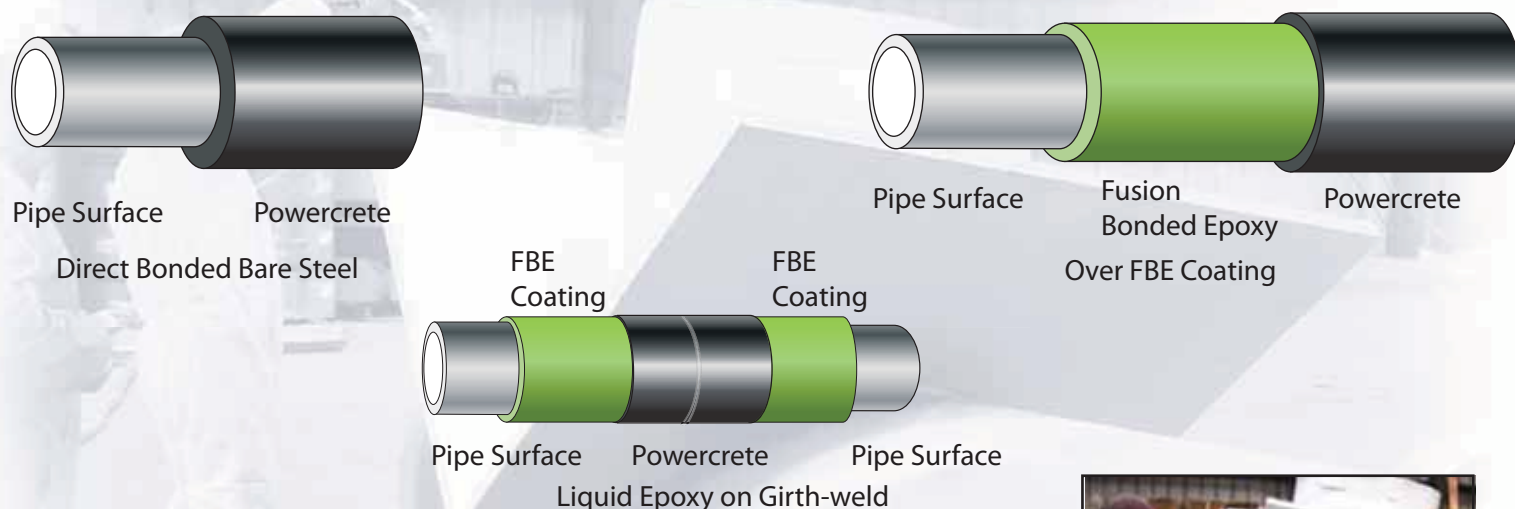
Versatile & Cost Effective



All Powercrete® formulations are developed to be field friendly and cost effective. The ease of application can be achieved either by hand (rollers, brushes or trowels) or with spray equipment which delivers high-build in a single pass, thereby reducing application time. This engineered application flexibility allows the contractor to stock and manage a single product for any application requirement.

As with all coatings, the performance of Powercrete® is governed by the care and attention to detail that is exhibited by the applicator. In general, all prevailing standards call for a metal surface to be clean, free of grease, salts and other residue. Additionally, an “anchor pattern” is to be achieved so as to increase the bondable surface area to which the coating is applied.

The versatility of Powercrete® allows it to be used as an abrasion resistant overlay to FBE and direct bonded to bare steel. The final coating thickness for either use should be specified by the end user. Below ground soil conditions, the wall thickness of the pipe and the application must be considered in determining the final thickness.



Technical Services

Berry Plastics CPG demonstrates a commitment to projects and end users by assisting with the application of corrosion protection products through the technical service program. The goal of the program is to work with the end user and all affiliated companies to obtain the best applied coating on the substrate to be protected. This value-added program, coupled with our proven high performance coatings serves as the basis for long-term protection of metal structures against corrosion and mechanical damage in a wide range of different environments.



Training & Certification

On a global basis, Berry Plastics Corrosion Protection Group trains and certifies applicators and end users. Balancing classroom and hands-on practical training, the course includes:

- Presentations by leading industry experts
- History and types of epoxies
- Chemistry of liquid epoxies
- Proper product selection
- Training on specific standards and test methodologies
- Field health and safety guidelines
- Coatings case study reviews
- Application specifics
- Trouble shooting and maintenance of equipment
- Equipment setup and tear down procedures



The **Powercrete®** Applicator Certification Program recognizes successful completion of the course and issues a certificate to each qualified participant. Certification is renewable on an annual basis.



Equipment

Powercrete® application specifications provide guidance for equipment selection and appropriate configurations. Air/hydraulic, plural component and hot airless machines can be purchased, leased or contracted from a variety of suppliers.

Packaging

Powercrete® is available in various packaging options to meet the application and volume requirements of each specific project. Standard packaging includes 55 gal (200 L) drums and 5 gal (20 L) pails. Kits are packaged standard in 2 lb (0.9 kg), 4 lb (1.8 kg), 10 lb (4.5 kg) and 20 lb (9.0 kg) weights. All kits include the base and cure components. Small Cartridge Packs are also available for certain products.













Berry Plastics CPG

Powercrete® is a product of the Berry Plastics Corrosion Protection Group which has more than 50 years of solid performance in protecting oil, gas, water and district heating pipelines as well as metal structures around the world. Increasingly, Berry Plastics Corrosion Protection Group has adopted an all from one source philosophy and is capable of manufacturing and delivering the most complete line of products for pipeline corrosion available today.



Product Selection Guide

Applications

Directional Drill & Thrust Bore	Girth Welds	Bends, Fittings, Elbows & Odd Shapes	Pipeline Rehabilitation	Offshore Risers & Spans	Water Pipe OD (AWWA C-210)	Water Pipe ID	ID of Natural Gas Transmission	Product Available Color	Description	Key Product Features	Maximum Operating Temperature	
											°C	°F
●			●		●			Powercrete DD 	100% solids liquid epoxy polymer concrete for directional drills and thrust bore applications applied over FBE	1) Taber Abrasion CS-17; 1,563 cycles/mil (63 cycles/micron) 2) adhesion to FBE > 2,500 psi/17 MPa	55	130
	●	●	●		●			Powercrete J 	100% solids liquid epoxy designed as a primary corrosion coating to bare steel and over FBE coatings	1) high wet out 2) low build, multi-coat system 3) adhesion to bare steel >3,850 psi/26 MPa 4) exceeds AWWA C-210	60	140
		●	●	●	●			Powercrete R-60 Burgundy 	100% solids liquid epoxy designed as a primary corrosion coating to bare steel and over FBE coatings	1) 20 mils (0.5 mm) build-up in single coat 2) adhesion to bare steel: 4000 psi / 27 MPa 3) High performance coating for medium operating temp.	60	140
	●	●	●	●	●			Powercrete R-65/F1 	Very fast setting, 100% solids liquid epoxy designed as a primary corrosion protection to bare steel and over FBE coatings	1) easy 2:1 mix ratio 2) 75 Shore "D" reading: 40 mils (1mm) in 75 mins @ 25°C (77°F) 3) cathodic disbondment at 60°C (140°F) is < 0.4 inch (<10 mm) 4) cures fast in cold environment	65	149
●	●	●	●	●	●			Powercrete R-95 	100% solids liquid epoxy novolac designed to direct bond to bare steel and over FBE coatings	1) 40 mils (1.0 mm) build in single coat 2) adhesion to bare steel; 3,550 psi/26 MPa 3) cathodic disbondment; 0.3 inch/8.0 mm at 95°C (203°F)	95	203
	●	●	●					Powercrete R-150 	100% solids liquid epoxy novolac designed to direct bond to bare steel and over FBE coatings (for high operating temperature conditions)	1) 40 mils (1.0 mm) build in single coat 2) adhesion to bare steel; 3,700 psi/26 MPa 3) cathodic disbondment; <0.5 inch/ <12mm at 150°C (302°F)	150	302
●			●		●	●		Powercrete PW 	100% solids liquid epoxy designed for coating ID of pipelines and tanks in potable water applications	1) NSF/ANSI Standard 61 Certified 2) exceeds AWWA C210 3) meets BS6920 4) 20 mils (0.5 mm) build in single pass	60	140
●			●		●	●		Powercrete W 	100% solids liquid epoxy designed for coating ID and OD of Pipelines carrying sea/river/process/fire water, storage tanks and sewage pipes	1) 20 mils (0.5 mm) build in single pass 2) Adhesion to bare steel; 3000 psi (20 MPa) 3) Tough & Abrasion resistance 4) Cathodic disbondment; <8mm/<0.31 inch at 43°C (110°F)	55	131
			●		●	●		Powercrete PW-A 	100% solids liquid epoxy coating as an internal lining for potable/drinking water carrying pipelines and storage tanks	1) exceed AWWA C-210 2) meets BS:6920 3) 20 mils (0.5 mm) build in single pass	60	140
						●		Powercrete Superflow 	A two-component flow efficiency epoxy coating (FEC) for ID of natural gas transmission through steel pipe	1) meets API RP 5L2 2) meets ISO 15741 3) savings in energy cost during gas transmission	100	212

All Powercrete products can be manual or spray applied from a single formulation

On the Job with Powercrete



Global Locations to Serve You



Select Worldwide Customer References

ADCO – Abu Dhabi
AGL – Australia
Air Liquide – TX, USA
Algonquin Gas – MA, USA
ANR Pipeline – NY, USA
ARCO – TX, USA
ARKLA – LA, USA
Beijing Gas – China
British Gas – England
CIG – UT, USA
Colombia Gulf – Colombia
Colonial Pipeline – NC, USA
Colorado Interstate – CA, USA
ConocoPhillips – TX, USA

El Paso – TX, LA, MS, FL, USA
ExxonMobil – Barbados
GASCO – Abu Dhabi
GATX Florida Central – FL, USA
Kuwait Oil Co. (KOC) – Oman
Lasmo Oil – Colombia
Mid American Pipeline – TX, USA
Natural Gas of America – OK, USA
Niagara Mohawk – NY, USA
NIPSCO – IN, USA
Northwest Pipeline – WA, OR, USA
Oman Gas Co. – Oman
Pacific Gas & Electric – CA, USA
PetroChina – China

Petroleum Authority PTT – Thailand
Petro. Development of Oman – Oman
Philadelphia Electric – PA, USA
Plantation Pipeline – GA, USA
Saudi ARAMCO – Saudi Arabia
SCOP – Iraq
Texas Gas Transmission – KY, USA
Total Petroleum – TX, USA
Trans. de Gas del Norte (TGN) – Argentina
Unocal – CA, USA
Union Pacific Resources – WY, USA
US Noram Energy – AR, USA
Valero Energy – TX, USA
WillaimsTransco – LA, USA



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The leading global partner in protecting the integrity of critical infrastructure.

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