

# Powercrete® Superflow

## Flow Efficiency Coating

Liquid Epoxy Internal Lining of Pipelines for Reduced Friction and Improved Gas Flow During Transmission



### Product Description

Powercrete Superflow is a two component flow efficiency epoxy coating (FEC) formulated to reduce internal surface roughness and to improve flow conditions during transportation of natural gas through steel pipes. Additionally, coating provides corrosion protection to the internal surface of the pipes during intermediate storage and transportation and reduces the cost of cleaning the pipeline after hydrostatic testing. It withstands pigging and hydrostatic operations.

Powercrete Superflow is designed to be spray applied using standard airless spray equipment. Sprayed on bare steel coating provides smooth internal surface.

Coating meets **ISO 15741** and **API RP 5L2** specifications and helps maximize efficiency and productivity in gas transportation in various world regions.

### Product Features & Benefits

- Savings In Energy Cost During Gas Transmission  
Reduced Frictional Resistance
- Savings In Steel Pipe Cost In Project Design Phase  
Required Pressure Achieved With Smaller Pipe Diameter
- Pipe Protection In Storage And Transportation  
Good Anticorrosion Properties
- Easy Cost Effective Application  
1:1 Mixing Ratio for Standard Airless Spray Equipment

### Physical Properties

Property / Test	Test Method	Test Results
Stripping	ASTM B-117 / API RP 5L2	Coating Removed in Form of Flakes
Bend Test	ASTM D-522 / API RP 5L2	No Flaking/No Loss of Adhesion; No Cracking
Adhesion	API RP 5L2	No Lifting of Any Material Other Than Cutting
Hardness	DIN 53 153 / API RP 5L2	Over 94 Buchholz
Gas Blistering	API RP 5L2	No Blistering
Abrasion Resistance	ASTM D-4060-95 / API RP 5L2	Satisfactory
Hydraulic Blistering Test	API RP 5L2	No Blistering of Paint Film
Pinhole Test	API RP 5L2	No Pinholes Observed
Salt Spray Test	ASTM B-117 / API RP 5L2	No Blistering; No Coating Lifting With Adhesive Tape
Water Immersion	API RP 5L2	No Blistering
Methanol Water Immersion	API RP 5L2	Satisfactory; No Blistering

### Product Selection Guide

Dry Heat Resistance:	100° C (212° F)	Color:	Brownish Red
Volume solids (%):	50 +/- 2	Theoretical Spreading Rate:	8.34 Sq. M/Litre @ 60 microns 341 Sq. Ft./Gal @ 2.5 mils
Mixing Ratio (By Volume):	100:100 Part A to B	Maximum Thinner Volume:	0-5 % ( our compatible thinner should be used)
Recommended Surface Profile:	30-40 microns 1.2-1.6 mils	Flash Point:	> 25° C (77° F) (base, curing agent and thinner)
Surface Preparation:	ISO 8510 SA 2 1/2 SSPC-10 - Near-White	Recoat Interval (Spray):	7-8 hrs; up to 5 days
Surface Should Be Free From Oil, Dust, and Other Contaminants		Clean Up:	Acetone, MEK, Toluene, Thinner supplied by us
Recommended Dry Film Thickness:	60-100 microns 2.5-4 mils	Application Equipment:	Standard Airless Spray Equipment (Graco Hydra-Cat or similar)

**Temperature and Humidity Considerations**

**Powercrete® Superflow**

Normally, application is to be carried out when relative humidity (RH) is below 80%. To avoid the risk of condensation, application should be performed with the temperature of steel substrate at least 3° C (5° F) above dew point. If application must be done at temperature at or below the dew point the steel substrate must be preheated.

**Storage & Handling**

For optimum performance, store Powercrete® Superflow epoxy products in a dry, well-ventilated area. Maintain products in original packaging and in sealed condition until just before use. Avoid exposure to direct sunlight, rain, snow, dust or other adverse environmental conditions or contaminants.

**NOTE:**

Avoid prolonged storage at temperatures above 40°C (104°F) or below 5°C (40°F).

**Cure Times**

Pot Life @ 25°C (77°F):	4 hours
Touch Dry:	1-2 hours
Tack Free:	3-4 hours
Recoatibility:	7-8 hours, up to 5 days
Hard Dry:	16 hours
Application Temp Range:	10°C to 50°C 50°F to 122°F
Shelf Life (stored in specified conditions):	1 years

**Ordering Information**

Powercrete Superflow is available in the following packaging options:

**Drum**

- Part A: 200 Liters Barrel
- Part B: 200 Liters Barrel

**Pail**

- Part A: 20 Liters Drum
- Part B: 20 Liters Drum



**Product Support and Additional Information**

For additional information on delivery, application, training, appropriate equipment, sales and customer service, please visit [www.berrycpg.com](http://www.berrycpg.com), call or email one of the worldwide locations listed below.

*Berry Plastics warrants that the product conforms to its chemical and physical description and is appropriate for the use stated on the technical data sheet when used in compliance with Berry Plastics written instructions. Since many installation factors are beyond the control of Berry Plastics, the user shall determine the suitability of the products for the intended use and assume all risks and liabilities in connection herewith. Berry Plastics liability is stated in the standard terms and conditions of sale. Berry Plastics makes no other warranty either expressed or implied. All information contained in this technical data sheet is to be used as a guide and is subject to change without notice. This technical data sheet supersedes all previous data sheets on this product.*

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