ICAT INDUSTRIES INC.

CEL 375 Product Data Sheet

Description:

CEL 375 by ICAT Industries Inc. is an extensively tested external pipeline coating. CEL 375 is a 100% solids epoxy that creates an extremely strong resilient protective film which provides excellent resistance to cathodic disbondment. CEL 375 is formulated to be spray applied (brush kits also available) with plural component heated airless pumps at a wet film thicknesses up to 60 mils DFT in a single application with excellent adhesion and abrasive characteristics. CEL 375 epoxy coating is formulated to address new construction, rehabilitation of existing pipelines, girth welds, valves, bends & field joints. CEL 375 carries a wide and extremely successful track record for over 20 years.

Uses:

CEL 375 is a two component, 100% solids epoxy coating system which may be applied directly to steel.

Features:

- Quick set / fast turn around times
- High build – up to 60 mils in a single coat
- Grey in color
- Finish: Gloss
- Pipeline: New Construction & Rehabilitation
- 100% solids content - VOC Compliant
- Excellent Adhesion and Cathodic Protection
- High Abrasion & Impact Resistance – Excellent for slip bores, directional drilling, etc.
- Provides monolithic membrane protection to the substrate
- Quick return to service
- Available in 200L drums (800L kits), 18L pails (72L kits) and brush grade kits of various sizes

Packaging:

Spray	18L Pails / 72L Pail Kits 200L Drums / 800L Drum Kits
Brush & Roll	Brush Kits 0.5L, 1.0L, 1.5L, 2.0L, 2.5L
Cartridge	1000ml Cartridge – Spray / B&R / Repair

648 Welham Rd. Barrie. Ontario. L4N9A1 • Tel: 705.739.0445 • Fax: 705.739.0609
USA Sales Contact : Compliant Coating LLC 281-851-0033 Twilson@compliantctg.com

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Properties	Value
Solids Content	100%
Mixed Material	
• Colour	Grey
• Specific Gravity	1.4 combined A and B
Mixing Ratio	3:1 Ratio
Full Cure Time (25°C)*	24 hours
Recoat Window Ł	
• (15°C)	6 hours
• (25°C)	3 hours
• (35°C)	1 hour
Dry to Handle	
• (10°C)	12 hours
• (20°C)	4.5 hours
• (30°C)	1.5 hours
Theoretical Coverage	1 sq. m/liter at 1 mm thickness
Thickness- weld joints/ FBE Repairs	
• Minimum/Maximum	20/80 mils (500/2000 microns)
• Recommended	25/40 mils (750/1000 microns)
Thickness- Bore Pipe	
• Minimum/Maximum	40/80mils (1000/2000 microns)
• Recommended	40/60 mils (1000/1500 microns
Holiday Detection	125 volts/mil (5000 V/mm)
Cathodic Disbondment Test	
• 28 days @ 20°c	3 mm
• 28 days @ 65°c	2.5 mm
• 28 days @ 80°c	4 mm
Hardness	Shore “D” >80
Impact Resistant @ 0°c	8 Joules
Tabor Abrasion	
CS 17 wheel 1000 cycles 1 kg load	95 mg
Dielectic Strength	15.86 V/um
Adhesion to steel	3000+ psi (glue breaks)
Adhesion to FBE	3000+ psi (glue breaks)
Service Temperature	-50°F to 212°F (-45°C to 100°C)
Application Temperature	32°F to 212°F (0°C to 100°C)

*** For additional data, including curing schedules, please contact the product manufacturer.**

Ł *NOTE: Recoat windows are to serve as a general guide only. Several environmental factors can significantly affect inter-coat adhesion. The posted values were conducted under controlled laboratory testing.*

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Storage: Minimum 36 months when stored in original containers @ 32°F (0°C) to 113°F (45°C). When temperatures are below 32°F (0°C) product can get heavy thus needs to be warmed and agitated before application.
Cleaning: use suitable solvent such as MEK, Acetone, Xylene, Lacquer Thinner (contact manufacture if unknown) to clean equipment.
Health and Safety: Always wear protective gear and avoid contact with skin. Do not ingest. See material safety data sheet for further information.

January 16, 2024