

# ARCHCO 456™

## A Surface Tolerant Natural Gas Pipeline Flowliner

### Description

Archco 456 is a two-component, high-solids, surface-tolerant epoxy flowliner for “dry” natural gas transmission pipelines. It is designed to increase flow efficiency of natural gas in pipelines. This lining provides a smooth surface inside the pipe that will increase flow and reduce energy cost of transporting natural gas. Meets or exceeds API RP 5L2.

### Uses

- Dry natural gas transmission pipelines

### Features

- Improves flow efficiency in gas pipelines
- Excellent corrosion protection
- Excellent flow and leveling
- Single-coat application
- Hard, smooth, glossy finish
- Excellent abrasion resistance
- Low surface tension (27 Dynes) for higher gas flow
- Excellent adhesion
- Independently tested & meets or exceeds API RP 5L2

### Mixing

**Mixing:** Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.

1. Before mixing, agitate base (Part A) with a power agitator.
2. Combine entire contents of catalyst (Part B) with base and mix thoroughly with power agitator.

**Thinning:** May be thinned up to 10% with Archco 400E, MIBK or MAK.

### Surface Prep

Surface preparation is very important and will improve the adhesion and extend the life of Archco 456. Surface preparation should include the following:

- Surface must be at least 40°F (4°C) prior to application.
- Surfaces must be dry, clean, free of oil, grease, and other contaminants and must



# TECHNICAL DATA SHEET

- be structurally sound.
- All direct-to-metal coatings provide maximum performance over blasted surfaces.
  - For steel service the minimum standard is SSPC-SP6, NACE 3, Sa 2, surface profile of 1.2 -2.5 mils (30-63 microns)

## Application

Typical Film Thickness:

**Wet:** 4.7 to 7.8 mils (119 to 198 microns)

**Dry:** 3 to 5 mils (76 to 127 microns)

Airless Spray: Tip range 17-21 thou. Total output fluid pressure at spray tip not less than 3,000 psi. A 30:1 pump or larger is recommended. Ideally, fluid hoses should not be less than 3/8" ID and no longer than 50 feet to obtain optimum results.

## Storage

Store in a dry, well-ventilated area between 40°F to 105°F (4°C to 41°C) in original, unopened containers. Shelf life is at least 6 months under these conditions. It is recommended that all components be stored between 68°F to 86°F (20°C to 30°C) for 24 hours prior to use for optimum pumping and productivity.

## Cleaning

Clean equipment with Archco 400E, MIBK or MAK or equivalent solvent cleaner.

## HSE

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. See safety data sheet for further information.

## Packaging

5 gallon (19 liters) kits and 55 gallon (190 liters) kits.

Kit Sizes	Part A	Part B
5 gals (19 liters) kit	1 ea. 2.5 gals (9.46 liters) pails	1 ea. 2.5 gal (9.46 liters) pails
55 gals (190 liters) kit	19 ea. 2.75 gals (10.41 liters) pails	1 ea. 2.75 gal (10.41 liters) pails

Contact Premier Coatings for other kit size alternatives.

# TECHNICAL DATA SHEET

## Tech Data

Properties	Imperial	Metric
<b>Solids Content by Volume</b>	64% ( ± 0.2%)	64% ( ± 0.2%)
<b>Mixed VOC</b>	2.72 lbs/gal	326 grams/liter
<b>Operating Temperature</b>		
Immersed	200°F	93°C
Atmospheric	275°F	135°C
<b>Mix Ratio by Volume</b>	19 to 1 (A to B)	19 to 1 (A to B)
<b>Thickness</b>		
Wet	4.7 to 7.8 mils	119 to 198 microns
Dry	3 to 5 mils	76 to 127 microns
<b>Number of Coats</b>	One	One
<b>Theoretical Coverage @ 3 to 5 mils</b>	342 to 205 sq. ft/gal	31.77 to 19.05 sq. m/gal
<b>Thinner</b>	Archco 400E, MIBK, or MAK	
<b>Shelf- Life</b>	6 months	6 months
<b>Flash Point</b>	40°F	4°C
<b>Pot Life @77°F (25°C)</b>	2 hours +	2 hours +
<b>Dry Time @ 77°F (25°C) / and 50% RH</b>		
Set Time	30 Minutes	30 Minutes
Tack Free	2 Hours	2 Hours
Through Cure	6 Hours	6 Hours
Full Cure	7 Days	7 Days
<b>Gloss Level</b>	High	High
<b>Performance Data</b>		
Oil Immersion (ASTM D-1308)	Passes 1000 hours	Passes 1000 hours
Salt Water Immersion (ASTM D-1308)	Passes 1000 hours	Passes 1000 hours
Pencil Hardness (ASTM D-3363)	H	H
Adhesion (ASTM D-4541)	2800+ psi	19.31+ MPa
Salt Fog Resistance (ASTM B-117)	2000+ Hours Passes	2000+ Hours Passes



**PREMIER COATINGS**

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