

*Film Results

Property	Test Method	Acceptance Criterion	Results
Color	----	----	Light grey
Salt Spray 500 hrs	ASTM B117	API RP 5L2 (Appendix #2)	No blister and delamination
Water Immersion	Saturated CaCO ₃ solution in distilled Water-100% immersion, room temperature, 21 days.	API RP 5L2 No blistering over 0.25 in. (6.3 mm) from Edges	No blistering and disbonding
Stripping	API RP 5L2 (Appendix #3)	API RP 5L2 (Appendix #3)	pass
Bending	ASTM D 522	API RP 5L2	pass
Adhesion	API RP 5L2 (Appendix #4)	API RP 5L2 (Appendix #4)	pass
Hardness	DIN 53 153	API RP 5L2 Minimum 94 Buchholz at 77 ± 2°F	pass
Gas Blistering	API RP 5L2 (Appendix #5)	No blistering	pass
Abrasion	ASTM D 968, Method A	API RP 5L2 Minimum 23 Coef. Of Abrasion	pass
Hydraulic Blistering	API RP 5L2 (Appendix #6)	No blistering	pass
Surface Roughness (Rz)	----	----	≤ 3 μm

*all film properties obtained on shot blasted steel Sa 2.5 (ISO 8501-1) with surface profile 35-50μm with film thickness 150 μm.



Peka-Pro FE Flow Efficiency Fusion Bonded Epoxy

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Flow Efficiency Fusion Bonded Epoxy



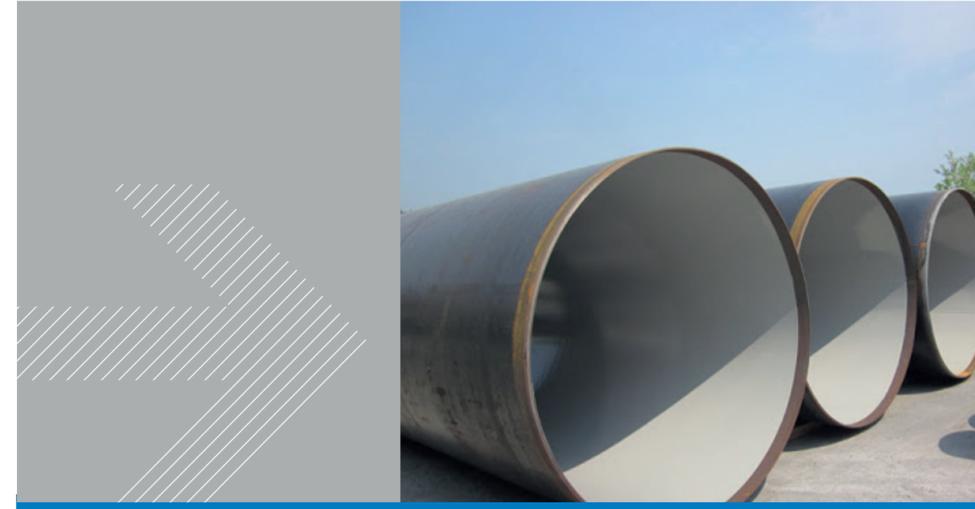
About us

Peka Chemie Co.

PEKA CHEMIE Company was founded in March, 1995 with the aim of producing different kinds of powder coatings.

As the biggest producer of powder coatings based in Iran, PEKA CHEMIE has been supplying the highest quality of powder coatings including decorative, industrial and fusion bonded epoxy.

PEKA CHEMIE, based on technical knowledge of its experts, technological and experience background is known as the only and stand-alone producer of fusion bonded epoxy in Iran.



Introduction

A key factor influencing the efficiency of gas transportation is the internal surface roughness of the steel pipe – the rougher the surface, the lower the efficiency. The smooth surface of the lining reduces the friction that slows the flow of gas or liquids moving through the pipeline.

A smooth surface in a pipe results in the following benefits:

- Better flow rate and reduction in pressure drop between compressor stations
- Lower investment in compression/pump equipment (smaller horsepower ratings)
- Reduction in operating cost of compression/pump equipment (fuel)
- Lesser maintenance required for compression/pump equipment
- Potential for pipe diameter reduction requirement to obtain the same flow
- Lesser sediment build-up
- Cost saving in pipe cleaning and maintenance
- Less exposure to biohazards associated with sediment build-up

When using Flow Efficiency coatings, improved hydraulic efficiency is most effective in small diameter pipe and tubing.

Flow Efficiency Improvement Compared to Bare Pipe

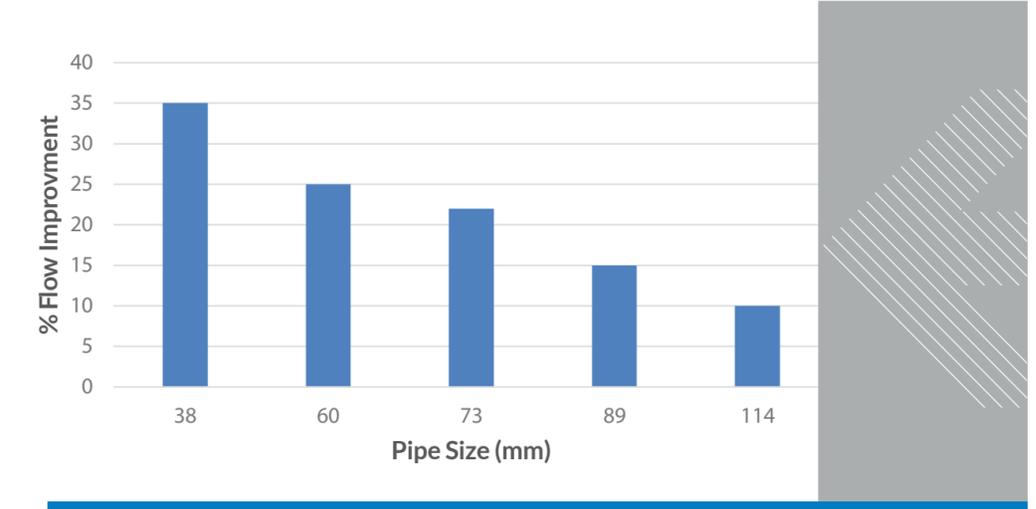


Photo courtesy of " Fusion Bonded Epoxy (FBE) a Foundation for Pipeline Corrosion Protection"

Flow Efficiency Fusion Bonded Epoxy

Peka-Pro FE

Peka-Pro FE is a series of fusion bonded epoxy of PEKA CHEMIE that is formulated specially for pipelines internal coatings which carry Non-corrosive gas (sweet gas).

Peka-Pro FE has been designed as a reliable solution to improve gas transmission efficiency, reduce transportation costs.

When applied to the internal surface of steel pipes, Peka-Pro FE reduces the surface roughness (Rz) from 30-50 microns to even below 1 micron.

A smoother surface (Rz) will increase flow capacity whilst reducing transportation costs.

Peka-Pro FE meets requirements of API RP 5L2 and ISO 15741.