

# PIPELINE INLINE REHABILITATION

*A cost-effective method of internal pipeline cleaning and coating*



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Pipelines in refineries, gas plants and industrial facilities experience build-up of deposits over time. Any disruption to these critical pipelines from paraffin wax or build-up of scale, hydrate, asphaltene or corrosion, significantly impacts a facility's production and profits by increasing the energy requirements needed to maintain design flow rates. Maintaining a clean pipeline:

- Maximizes production
- Increases system reliability
- Lowers associated safety risks
- Improves the bottom line profitability for operators

Pipeline inline rehabilitation is a cost-effective method of internal pipeline cleaning and coating. This method of rehabilitation **extends the service life** of the pipeline by up to **25 years, costs up to 90 percent less** than replacement and can be completed in a matter of weeks instead of years in new construction permitting.

Pipeline inline rehabilitation for refineries combines two well-established services to offer a new thorough cleaning and coating process to the market. The in situ coating provides a uniform homogeneous coating throughout the pipeline, including on all field joints and bends. In situ coating applications are extremely effective and can be used on all the following types of pipelines:

- Marine terminal loading/offloading of crude oil, petroleum products and intermediates
- Sea water cooling of heat exchangers
- Flare lines
- Various highly-corrosive interplant process lines
- Anti-stat ID coating of aviation fuel lines

## Benefits

In situ coatings prevent internal corrosion from taking place at a fraction of the cost of replacing corroded pipelines. The benefits to in situ pipeline coating include:

- Corrosion protection
- Power savings
- Reduced chemical treatment
- Increased safety and environmental protection
- Extended life and paraffin retardation
- Eliminates construction and hot work permitting

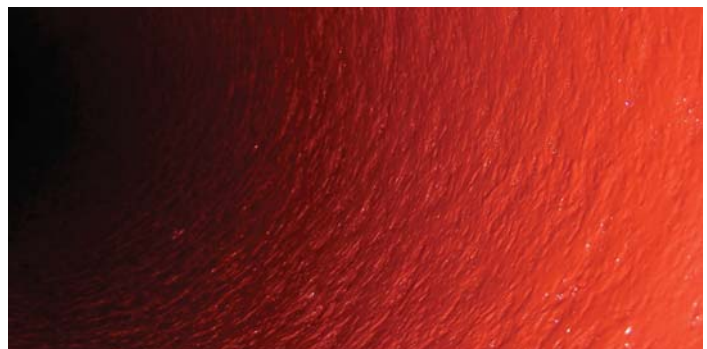
Inline rehabilitation is completed while the pipeline remains in place—making this an ideal method of repair for refineries to complete during turnarounds. Personnel at refineries can be confident the pipeline is safer and more reliable when the plant is back in operations.

[An ISO 9001:2015 Certified Company](#)

In situ coatings can increase the service life of your pipeline asset by up to 25 years, depending on the method of inside diameter corrosion control.



Pitting before cleaning and coating



Pitting after coating

## Project Example

Aegion Coating Services is providing multiple refineries and terminal operators with inline rehabilitation on refinery offshore marine crude oil and petroleum products pipelines in Asia and Europe. Our customers expect to save more than \$5 million each and over 2 years in permitting costs and time as a direct result of this rehabilitation.



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