

# Zerust® Transparent Flange Saver® Provides Effective Protection Option for Flanges



## PROBLEM

### *Ineffective Protection Option for Flanges*

- **Paints and coatings** are difficult to apply – especially without proper surface preparation
- High humidity and salt spray conditions make this especially problematic on offshore platforms and coastal terminals
- In these conditions the service life of such options is measured in months
- **Semi-solid tapes** – when properly applied wax/petrolatum tapes can provide adequate corrosion protection
- Inspection and routine maintenance of the flange is not possible without removing the entire wrap
- These tapes are messy/greasy and attract dirt and contaminants
- Application is time consuming and requires care to ensure no leaks
- **Epoxy coatings** – when properly applied, can provide adequate corrosion protection
- Inspection and routine maintenance of the flange is not possible without removing the entire coating



**Zerust®** OIL & GAS  
WORLDWIDE CORROSION SOLUTIONS

## PROBLEM CONTINUED

### *Ineffective Protection Option*

- Epoxies are expensive and difficult to apply
- **Tape** applied to flange faces temporarily prevents moisture from entering the gap – but moisture enters in the long term
- Tape applications do not protect nuts, bolts or weld joints and peel off over time
- **Hot Melt Thermoplastics** – when properly applied, can provide adequate corrosion protection
- Require “hot work” permits to apply
- Require trained technicians and specialized equipment
- Inspection and routine maintenance of the flange is not possible without removing the entire coating
- **Encapsulating Membranes** – require surface preparation and need multiple components, each with specific application instructions, for an installation
- Provides adequate corrosion protection and can be ‘peeled back’ for inspections
- Expensive and requires trained personnel to prep and (re)apply



For more information, please contact [marketinginfo@zerust-oilgas.com](mailto:marketinginfo@zerust-oilgas.com)

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## SOLUTION CONTINUED

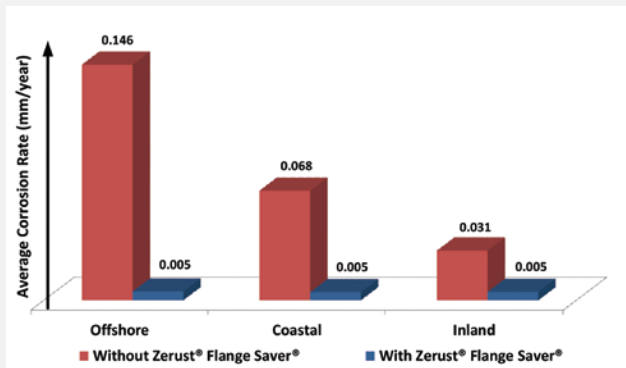
### Zerust® Transparent Flange Saver®

- Significant reduction in corrosion rates have been reported by clients – and these have been correlated to corresponding maintenance cost savings
- Long term field trials have proven the effectiveness of flange savers in tough operating conditions
- Zerust Flange Savers are in specifications at Petrobras for use on all their offshore platforms
- Multiple clients are using Flange Savers around the world
- Zerust Flange Savers have won awards from NACE for technical innovation and from Petrobras for cost savings

## SOLUTION

### Zerust® Transparent Flange Saver®

- Zerust's proven VCI film is shaped into a custom shape to fit standard flanges and valves
- Zerust Flange Savers are a unique product that protect the entire flange assembly – the nuts, bolts, weld joints and flange faces – from corrosion in aggressive environments
- Flange Savers can be installed in under 5 minutes by an untrained laborer; they can be removed in less than 1 minute for inspections or replacement
- Flange Saver material is durable enough to last for 2+ years of tough service on offshore platforms and in tropical outdoor environments
- Zerust Flange Savers have been successfully used on offshore platforms and on coastal terminals for over 5 years



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