

# ANTI-CORROSION THERMOPLASTIC (ACT) COATING

Mun Siong Engineering is the sole distributor for Oxifree TM198 in Singapore. Oxifree TM198 is an organic thermoplastic coating to protect the metallic components from corrosion and contamination.

## INDUSTRIES



OIL & GAS



PIPELINES



UTILITIES



MINING



POWER PRODUCTION



MARINE



FOOD & BEVERAGES



STORAGE

## SUITABLE APPLICATIONS



ACTUATORS



BEARING  
HOUSINGS



ELECTRICAL  
CONDUCTORS



FLANGE  
ASSEMBLIES



GRAYLOCK  
CLAMP



PIPE SUPPORT



PUMPS



VALVES



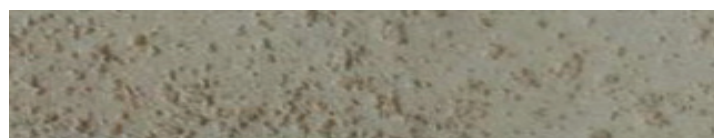
WELLHEADS

## BENEFITS

- ✓ **REDUCED COST**
  - Minimal surface preparation
  - Reduced labour requirement
  - Longer lasting and faster application time
- ✓ **RELIABLE**
  - Built-in corrosion inhibitors
  - Expands and contracts without crazing or cracking
  - Seals from external contaminants
  - Punctures do not impact performance
  - UV stable
- ✓ **PRACTICAL INSTALLATION (AND REMOVAL)**
  - Apply to bare, corroded or painted surfaces
  - Single product solution
  - Immediate Active protection
- ✓ **ENVIRONMENTALLY FRIENDLY & NON-HAZARDOUS**
  - Excellent UV resistance
  - Reusable during the application
  - Non-hazardous to land or aquatic life

## TM 198 COATING APPLICATION PROCESS

Minimal surface preparation required using only a wire brush to remove rust flakes.



Paint Requirement (Sa 2.5)



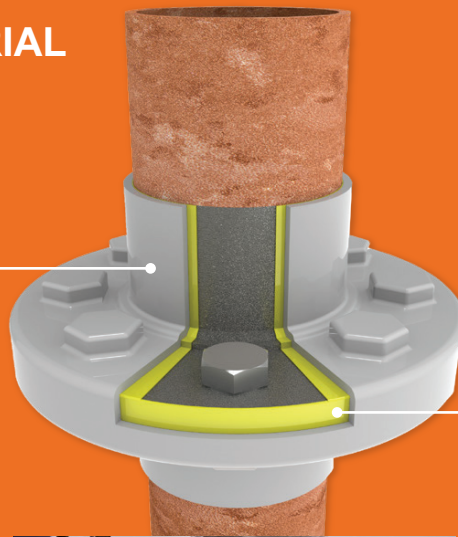
Oxifree Requirement (St 2.0)

Oxifree TM198 is melted down from solid resin. Two coats are applied to a 4mm minimum coating thickness using a heated hose and gun to provide 100% protection against corrosion and contamination.

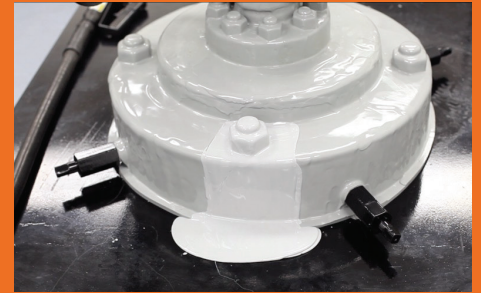
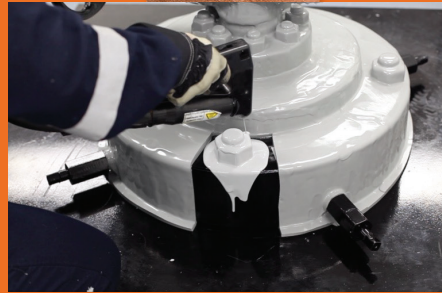
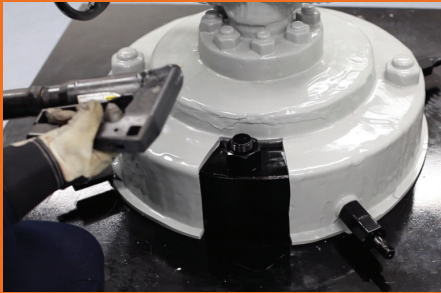
# TM198 COATING MATERIAL

## How TM198 Works

Organic thermoplastic coating provides full encapsulation, blocking ingress of contaminants, moisture and oxygen



Corrosion inhibitor oils act immediately and actively protect when in contact with the metal surface



While TM198 allows for NDT testing, removal is useful should a visual inspection be preferred. A small area can be cut away to expose the substrate and inspection or maintenance performed.

When refilling the area, the new material bonds to the existing material to re-encapsulate the substrate. The area is then secure and the material can continue to protect and provide complete protection against corrosion and contamination.

## CERTIFICATIONS

### MECHANICAL

- ASTM B117 – Salt Spray Test
- ASTM G154 – UV/Weathering Test
- ASTM D790 – Cryogenic bend flexibility
- ASTM E968 – Sand Abrasion Resistance
- BS 3900-F2 – Cyclic Condensation
- ISO 20340 – Corrosion Resistance And Aging Test
- ISO 2812-2 – Salt Water Immersion Test

### ELECTRICAL

- ASTM D149 – Dielectric Strength Testing
- BS2782 Pt.2 – Volumetric Resistivity Testing

### HEALTH AND SAFETY

- Boeing BSS 7239 – Smoke Toxicity Test
- ASTM E662 – Smoke Generation Test
- BS EN 11925-2 – Single Burning Item Test
- UL 94 V2 – Flammability of Plastic Materials
- OECD 201, 202, 203 – Water Toxicity Test

### CHEMICAL

- GOL492/09 – Volatile Organic Compound Test
- ASTM D7359/13 – Standard Test Method for Total Fluorine, Chlorine and Sulfur in Aromatic Hydrocarbons

