

Experts in repair and maintenance at your SERVICE Pioneering Industrial Sustainability





Your bottom-line matters to us!

- Mean time between failures (MTBF)
- Maintenance man-hours (MMH)
- Mean downtime (MDT)
- Reduced inventory Cost

Our corrosion experts and R & D are dedicated to help you to realize the lowest cost possible using our corrosion management solutions by offering an innovative products and services. Our global teams, offer field and benchmark solutions to determine your total cost of ownership.

Schedule a service call with one of our industry specialists today!

For over 100 years, Castolin Eutectic has been at the forefront of supplying the market with value-added surface protection products and solutions.

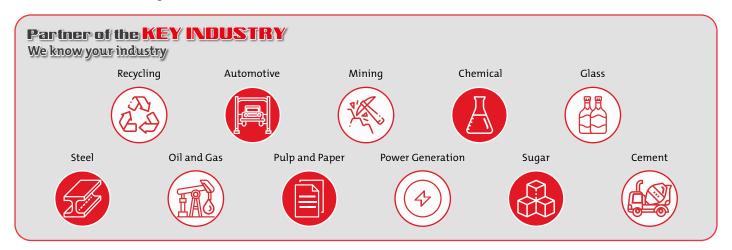
Castolin Eutectic strives to improve the existing life cycle of plant assets to provide the optimum operational performance against the effects of high corrosion maintenance failures.







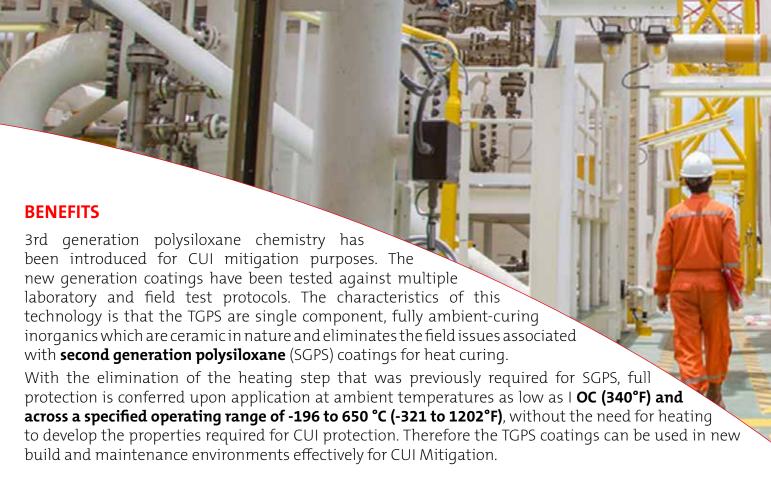
Castolin Eutectic wear management specialists have technically advanced solutions that redefine equipment life cycles across service centers, regardless of the wear mechanism





Industry served with MeCaGuard coating

- 1. Petrochemical
- 2. Chemical
- 3. Refineries
- 4. FPSO Platforms
- 5. Offshore platforms
- 6. Cement
- 7. Nuclear
- 8. Process industies



INSULATION COATINGS

Our TGPS **third-generation polysiloxane** insulative coating is a water-borne one-component, ambient-curing polysiloxane TIC coating. It is designed for **ultra-high-build** (UHB) in excess of 20,000pm (800 mils) **dry film thickness** (DFT) and a temperature tolerance range from -60 to 400°C (-76 to 752 F) which exceeds the current1800C (3500 F) limitation of thermal insulation coatings.

The polysiloxane TIC coating can be applied over a TGPS CUI primer as a system for high temperature exposure, personnel protection and thermal insulation purposes. The TGPS CUI/ TIC coating system characteristics are capable of completely mitigating CUI when compared to traditional insulation and cladded systems, and furthermore removes the annular gap between the insulation material and substrate which causes excessive corrosion rates in CUI environments.





Product chemistry	A waterbased, single component, ceramic filled acrylic.
Colour	White
Specific gravity	Approx. 0.61 g/ml
Typical film thickness	1000μm DFT per coat
Theoretical spreading rate	0.80 m2/l at 1000μm DFT
Volume solids	80% ± 2%
Thermal conductivity (λ)	0.05 W m-1 K-1
Temperature resistance	180°C
Application methods	Airless and brush



Product chemistry	A waterbased, single component, ambient curing, ultra-high-build inorganic polymeric siloxane matrix.
Colour	White and Light Grey
Specific gravity	Approx. 0.50 g/cm3
Typical film thickness	10000µm DFT per coat Total thickness of MeCaGuard INSU 752 will depend on expected service temperatures.
Theoretical spreading rate	0.76 m2/l at 1000μm DFT 0.08 m2/l at 10000μm DFT
Volume solids	76% ± 2%
Thermal conductivity (λ)	<0.06 W m-1 K-1 (per independent lab evaluation)
Temperature resistance	-60 to 400°C
Application methods	Diaphragm, airless, hopper gun & trowel Please consult Application Guideline.



Product chemistry	A single component, ambient curing, pure inorganic polysiloxane. Conforms to the NACE SP0198-2017 classification.
Colour	RAL 7035 and RAL 3009
Specific gravity	Approx. 1.90 g/ml
Theoretical spreading rate	7.6m²/l at 100µm DFT
Volume solids	76%
Flashpoint (ISO 1523)	30°C
Auto ignition temperature	450°C
Temperature resistance	-196 to 300°C
Application methods	Airless, airspray and brush & roller



<u>Technical Information</u>

Product chemistry	A single component, ambient curing, siloxane aluminum.
Colour	AL Light & AL Dark
Specific gravity	Approx. 1.55 g/ml
Typical film thickness	25 - 75μm DFT per coat
Theoretical spreading rate	27.2 m2/l at 25μm DFT
Volume solids	68% ± 2%
Flashpoint (ISO 1523)	30°C
Auto ignition temperature	>200°C
Temperature resistance	-196 to 600°C
Application methods	Airless, airspray and brush & roller



Product chemistry	A single component, ambient curing, pure inorganic polysiloxane. Conforms to the NACE SP0198-2017 classification of Inert Multi-Polymeric Matrix coatings.
Colour	Light Grey & Dark Grey
Specific gravity	Approx. 1.90 g/ml
Theoretical spreading rate	6.40 m2/l at 100μm DFT
Volume solids	64% ± 2%
Flashpoint (ISO 1523)	30°C
Auto ignition temperature	450°C
Temperature resistance	-196 to 650°C
Application methods	Airless, airspray and brush & roller



Product chemistry	A single component, ambient curing, polysiloxane.
Colour	Safety colours & RAL shades.
Specific gravity	Approx. 1.60 g/ml
Theoretical spreading rate	14.6 m2/l at 50μm DFT
Volume solids	73% ± 2% (colour dependent)
Flashpoint (ISO 1523)	30°C
Auto ignition temperature	500°C
Temperature resistance	-196 to 650°C
Application methods	Airless, airspray and brush & roller



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