

Coating Integrity Assurance Services

Protecting Critical Assets with Proven Coating Expertise



Advanced and standardized laboratory testing



Real-world qualification services



On-site coating inspection by NACE Level 3 certified inspectors



Specification and materials expertise to ensure long-term performance and compliance



Integrated surface preparation and coating application



Root cause failure analysis

Coatings are more than surface treatments, they are vital to asset integrity. Whether protecting tank farms, transmission pipelines, subsea installations, or atmospheric structures, coatings serve as the first line of defense against corrosion, environmental degradation, and mechanical wear.

Performance-Driven Testing

Our approach combines laboratory-based analysis with field-relevant testing to ensure coatings perform under real-world conditions. Programs are built on ISO, ASTM, and NORSOK standards, and enhanced with simulations of aggressive soil-side corrosion, UV exposure, marine environments, and high-pressure scenarios.

UK-Based Expertise with Global Reach

With dedicated coatings laboratories in the UK and access to global exposure sites, we deliver local expertise with international reach. Our teams are ICorr and AMPP (NACE) qualified, and all testing procedures align with UKAS-accredited standards.

End-to-End Coating Lifecycle Support

We offer a fully integrated solution that covers every aspect of coating integrity under one roof. Backed by decades of experience in oil and gas, services support asset owners, operators, and EPCs throughout the entire coating lifecycle.



Benefits

From Concept to Compliance

- Reduced coating failure risk
- Optimized coating selection
- Faster prequalification and regulatory approval
- Full traceability and defensible QA/QC data
- Support for innovation in hydrogen, renewables, and offshore sector

ROSEN Testing Capabilities

Schedule of Testing and Standards (1/2)

Materials/Products tested	Type of Test/Properties Measured/Range of Measurement	Standard Specifications / Equipment/ Techniques used
Coatings and Paints	Pipeline Coatings Performance Testing	ISO 21809 1-11
	Offshore Coating Performance Testing	ISO 12944 1-9
	NORSOK M501 Coatings Performance Testing	CSDS 1A,1B,1D,2A,2B,2C,3A,3B,3G4B,6A-F,7A-F,8,10A,10B
	Coating Test Panel/Specimen Preparation & Examination	ISO 1513, ISO 1514
	Abrasive Blast Cleaning	ISO 8501-1; ISO 11124
	Surface Cleanliness (Salt Contamination)	ISO 8502-6; ISO 8502-9
	Surface Profile	ISO 8503-1; ISO 8503-2
	Coating Application	Brush, Roller, Spray
	LV/HV Holiday Detection	ISO 29601; ISO 12944-9
	Determination of Coating Thickness	
	Wet Film Thickness (Comb, Wheel, Dial Gauges)	ISO 2808 - Method 1A-C, ASTM D4414, ASTM D1212, ISO 463, ISO 13102
	Wet Film Thickness (Gravimetric/Mass Method)	ISO 2808, ISO 3892
	Dry Film Thickness (Microscopical Method)	ISO 2808 & ISO 1463
	Dry Film Thickness (Magnetic, Eddy Current & Ultrasonic Methods)	ISO 2808, ISO 2178, ISO 2360
	Mechanical / Physical Properties	
	Flexibility / Bend Test (Cylindrical)	ISO 1519
	Flexibility / Bend Test (Conical)	ISO 6860
	Adhesion (Pull Off) Test	ASTM D4541, ISO 4624
	Adhesion (X-Cut) Test	ISO 21809
	Impact Resistance	ASTM G14:04(2018), ISO 6272, ISO 21809, ISO 14577
	Indentation Resistance (All Temperatures)	ISO 218091, ASTM G17
	Peel Strength	ISO 21809, ASTM D903
	Lap Shear Resistance	ISO 21809
	Elongation to Break & Elastic Modulus	ISO 21809, ISO 527-2, ISO 527-3, ISO 188
	Bursting Strength	ISO 21809-3, ISO 3303-1, ISO 188
	Compressive Strength	ASTM D695
	Hardeness (Shore O,A,D)	ISO 7619-1, ISO 48-4, ASTM D2240
	Taber Abrasion Test	ASTM D4060
	Cohesive Bond Strength Testing	ASTM C633
	Specific Electrical Insulation Resistance (all Temps)	ISO 21809, ASTM D257
	Determination of Gloss	ISO 2813
	Drip Resistance	ISO 21809-3

ROSEN Testing Capabilities

Schedule of Testing and Standards (2/2)

Materials/Products tested	Type of Test/Properties Measured/Range of Measurement	Standard Specifications / Equipment/Techniques used
Coatings and Paints	Corrosion Tests	
	Cycling Ageing Resistance	ISO 12944
	Artificial Ageing & Thermal Cycling	ISO 19277 (CUI-3 category), AMPP TM0404
	Thermal Age Resistance	ISO 21809-3, ISO 527-2, ISO 527-3, ISO 188
	High Temperature Static Heat Test or Thermal Stability Test (Hot Air Ageing) (all Temps & Duration)	ISO 19277, ISO 188
	Exposure of Coatings to Accelerated Weathering	ASTM G154, BS EN ISO 16474-3
	Resistance to Fluorescent UV Exposure	ISO 16473-3
	Cathodic Disbonding (all Temperature)	ISO 12944-9, ISO 21809-3, ASTM G8, NACE TM0115, ASTM G42:11
	Holiday Detection	ASTM D5162, BS EN 10289 T/SP/CW/6
	Water Immersion/Sea Water Immersion (all Temperature)	ISO 2812-2, ISO 10289-3, ISO 10290
	Water Resistance and Humidity	ASTM D2247, ASTM D870, ISO 6270 1-3
	Water Absorption	ISO 62
	Salt Spray Testing	ASTM B117, BS EN ISO 9227
	Porosity, Interface and Cross-Sectional	CSA-Z245.20-06

ROSEN Swiss AG
Obere Spichermatt 14 · 6370 Stans · Switzerland

Phone: +41-41-618-0300
info@rosen-group.com
www.rosen-group.com

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