

PRODUCT LAUNCH

ACROLON 7300

High Solids Polyurethane



ACROLON 7300 is a high solids polyester modified acrylic polyurethane coating, suitable for use as a finish coat.

ACROLON 7300 has good gloss retention, durability and chemical resistance. It is suitable for use in both new construction and industrial maintenance situations.

ACROLON 7300 will be our main product specified in the Oil and Gas market.

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KEY MARKETS



Oil & Gas



Infrastructure

Recommended for use as finish coat in the highly corrosive environments across oil & gas, power and infrastructure applications

- onshore & offshore structures
- refineries
- petrochemical

- steel bridges
- tank exteriors

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SURFACE PREPARATION

ACROLON 7300 can be applied over approved undercoats within respective overcoating window

Approved undercoats

Dura-Plate 301Series, Macropoxy® 5400, Macropoxy® 646, Epigrip M922, Macropoxy® C88, Epigrip C425V2, Epigrip L425, Epigrip C400 Series
IMPORTANT: also approved as finish coat over FIRETEX® M90-02

Application Conditions

Remove all oil, dust, grease, dirt and other foreign material to ensure adequate adhesion

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PHYSICAL DATA

Property	Value	
Volume Solids %	68	
VOC SED g/L	290	
	Min	Max
Typical dft thickness range (µm)	50	100
Theoretical coverage (m ² /l)	13.6	6.8

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VALUE PROPOSITION

Feature	Benefits		
	Better performance	Cleaner environment	Faster turnaround / lower costs
Higher solids 68% sv		Lower VOC	Quicker application
Low temp curing -5°C	Reduced chances of under curing & gloss loss	Reduced wastage due to re-work	Extended painting season and daily painting window
Faster curing 10h to handle@10°C	Reduced chances of damages due to early handling	Reduced wastage due to re-work	Faster handling / increased productivity
Good film forming	Better barrier and aesthetics. Reduced chance of pinholing	Reduced wastage due to re-work	Quicker application

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VALUE PROPOSITION

	Benefits		
Feature	Better performance	Cleaner environment	Faster turnaround / lower costs
Polyester modification	Better abrasion and chemical resistance		
Competitive pricing			Reduced cost per m2 applied
Global product	Consistent quality & colour at global multi-site projects	Universal stock reduces obsolete stock	Greatly simplifies project management by asset owners and EPCs
Approvals	Submitted to Norsok System 1, Shell DEP. Expected: May 2015		

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TYPICAL SPECIFICATIONS

Examples

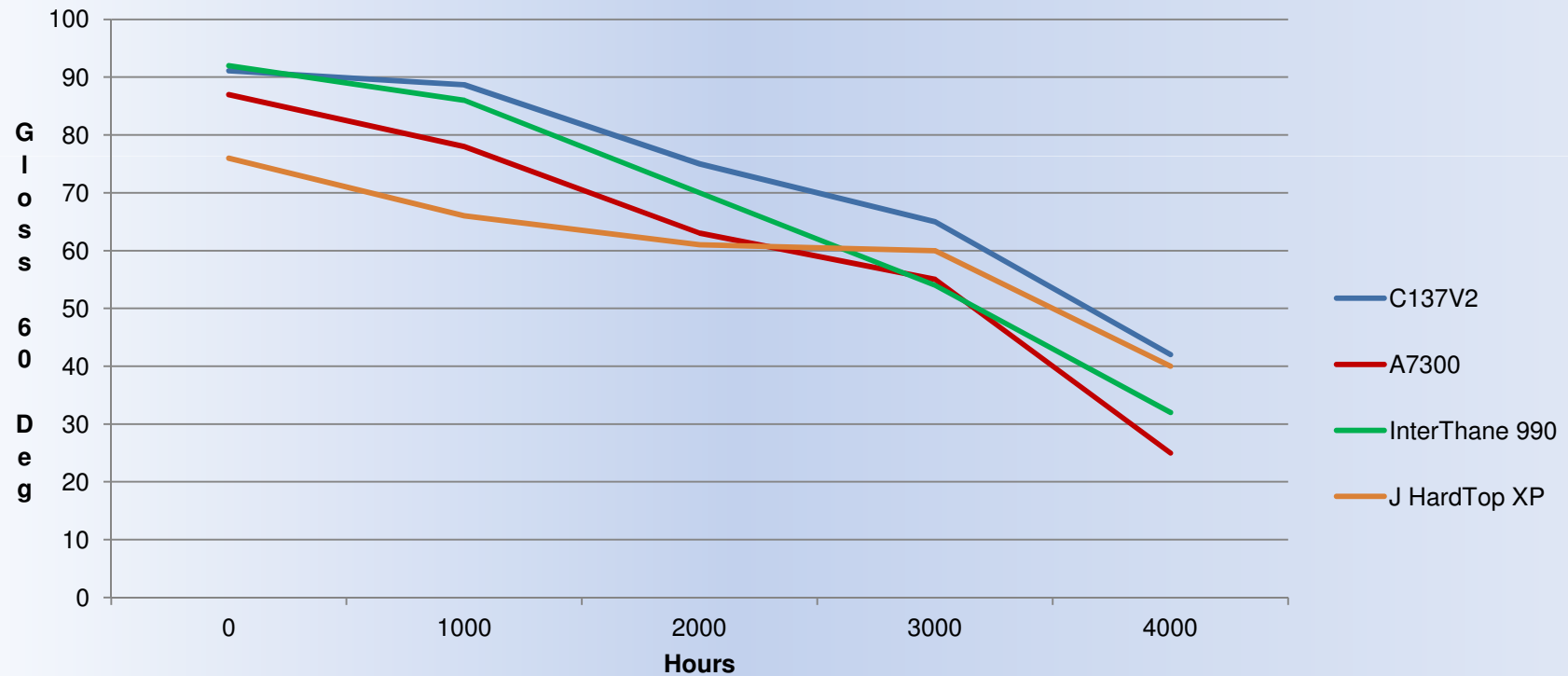
Typical Specifications		
New Build NORSOK M-501 Rev 6 System	Grit blast Sa 2.5 (BS EN ISO 8501-1:2007) 1 x 60µm dft Zinc Clad IV 1 x 170µm dft Macropoxy 646 or Macropoxy 5400 1 x 50µm dft Acrolon 7300	High Durability Offshore
New Build ISO12944 C5 (I)	Grit blast Sa 2.5 (BS EN ISO 8501-1:2007) 1 x 250µm dft Macropoxy 5400 1 x 70µm Acrolon 7300 Grit blast Sa2.5 (BS EN ISO 8501-1:2007) 1 x 250µm dft Macropoxy 5400 1 x 70µm dft Acrolon 7300	High Durability Infrastructure
Maintenance	Mechanical preparation St3 (BS EN ISO 8501-1:2007) Spot Primer 1 x 100µm dft Macropoxy C88 Build Coat 1 x 100µm dft Macropoxy C88 Top Coat 1 x 75µm dft Acrolon 7300	10 Years Onshore

PRODUCT PERFORMANCE

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Gloss Levels – QUV



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CURING AND DRYING

Drying Time Review – 5degC

	Acrolon 7300	Resistex C137V2
Touch Dry	1 hour (20 Hours when allowed to warm up)	1 Hour (18 Hours when allowed to Warm up)
To handle (Stacking test)	36 Hours	24 Hours

Drying Time Review 23degC

	Acrolon 7300	Resistex C137V2
Touch Dry	1.5 Hours	0.5 Hours
To handle (Stacking test)	12 Hours	7.5 Hours

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APPLICATION TRIAL TEST

Application Trial Tests

Product	Application Method	Min WFT	Max WFT
Acrolon 7300	Brush	100 Microns	225 Microns
Acrolon 7300	Roller	100 Microns	225 Microns

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TRIAL REQUESTS

Requests for further trial material should be made in writing using the TSD Request Form supplied. Completed forms should be submitted to **Customer Services** for action. Please clearly state the project names as **ACROLON 7300 Field Trial**.

Any questions regarding this new technology should be directed to the team below:

Product Manager: Beverly Hobbs

Technical Services: Bhiki Patel

Focus Market O&G: Lee Spoor

Technical Customer Services Team

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BENCHMARKING

Product	Solids volume %	DFT range	Handle @ -5°C	Handle @ 15°C
Acrolon 7300	68 %	50 - 100	24 h	10 h (10°C)
Resistex C137V2	54 %	50 – 75	n/a	24 h
International Paint: Interthane 990	57 %	50 - 75	n/a	10 h
Jotun: Hardtop XP	63 %	50 - 100	n/a	14 h (10°C)
Hempel: Hempathane HS 55610	67 %	50? - 100	Not stated. Claims min temp - 10°C	

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SUMMARY

- Higher solids
- Cold curing
- Fast drying
- Smooth application
- Global
- Polyester modified

FEATURES

BENEFITS

- Reduce cost
- Save time
- Better performance
- Lower environmental impact

- All seasons global finish coat fitting all critical polyurethane features while delivering extra performance and user friendliness

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