



Axalta™ Coating Systems

Certification to CSA Z245.20-14 System 1A

Nap-Gard Product: 7-2500 Series

Lot Number: 3468764 EV

Date Issued: October 20, 2016

Issued By: Yusuf Essix

Title: R&D Technician

The above described product meets the requirements in accordance with clauses 5.2.2 & 6.1.3 and is compatible with the requirements of clause 7.3.1 of CSA Z245.20 - 14. The results given on the following pages show that this product has met the requirements of CSA Z245.20 - 14 since all testing results are passing.

This Certification is valid from: 10/20/16

to: 10/20/17



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Table 1: Epoxy Powder Properties For:

7-2500 Series, lot no3468764 EV , manufactured in October 17, 2016 at Houston, TX USA

Test	Date of Test	Test Method	Acceptance Criteria	Results
Cure	12/7/16	12.1	45 sec	45 sec
Gel Time	10/20/16	12.2	8 s ± 20%	7 sec
Moisture	10/20/16	12.4.2 Procedure B	≤ 0.60 %	0.21%
Particle Size	11/1/16	12.5	≤ 3.0% @ 150µm	0.3%
			≤ 0.2% @ 250µm	0.1%
Density	11/1/16	12.6.2.3 Procedure B Micrometrics He Pycnometer	1440 ± 50 g/L	1427g/L
Thermal Characteristics DSC Q100	10/20/16	12.7 TA Instruments (DSC Q100)	Tg1 63 ± 5 °C	66 °C
			Tg2 109 ± 5 °C	112 °C
			ΔH 68 ± 10 J/g	65 J/g

WARRANTY POLICY: Axalta Powder Coating Systems USA, Inc. (“Seller”) certifies that all coatings delivered to Customer in unopened factory filled containers meet all pertinent quality standards presented in Seller’s current published literature. Since matters of surface preparation, application procedures, curing procedures and other local factors that affect coating performance are beyond Seller’s control, Seller assumes no liability for coating failure other than to supply replacement material for coating material proven to be defective. Customer will determine suitability of this product for its use and thereby assumes all risks and liabilities in connection therewith. Seller will not be liable for any injuries, damages or other losses derived, directly or indirectly, from or as a consequence of Customer’s use of the product. **SELLER DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, RELATING TO ITS PRODUCTS AND THEIR APPLICATION, INCLUDING BUT NOT LIMITED TO WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSES.**

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Table 2:

Qualification Test Requirements for Anti-Corrosion Coatings

7-2500 Series lot no. 3468764 EV to system 1A

Test	Test Method	Acceptance Criteria	No. of Tests	Date of Test	Results
24 h, Cathodic Disbondment (3.5V, 65°C)	12.8	6.5 mm max	3	12/07/16	1.8, 1.4, 1.7 mm Measured from edge of holiday
28 d, 23°C Cathodic Disbondment	12.8	8.5 mm max	3	12/07/16	3.3, 3.1, 2.6 mm Measured from edge of holiday
28d,65 °C Cathodic Disbondment (change solution)	12.8	20 mm max	3	12/07/16	5.8, 5.8, 5.0 mm Measured from edge of holiday
Cross-section porosity	12.10	1 - 4 rating	3	12/03/16	2,1,2
Interface porosity	12.10	1 - 4 rating	3	12/03/16	1,1,1
3.0 ° Flexibility @ -30°C	12.11	No cracking	5	12/03/16	All 5 bars - no cracking
1.5 J impact	12.12	No holidays	3	12/03/16	All 3 bars - no cracking
2.5 °C Strained cathodic dis.	12.13	No cracking	3	12/07/16	All 3 bars - no cracking
Thermal Characteristics TA Instruments (DSC Q100)	12.7	$\Delta Tg \leq 5 \text{ °C} \text{ †}$	3	12/6/16	0.2, -0.5, -1.1, °C
		Tg3 109 ± 5 °C	3	12/6/16	113, 114, 114 °C
		Tg4 109 ± 5 °C	3	12/6/16	113, 113, 113 °C
		$\Delta H1 < 2.8 \text{ J/g}$	3	12/6/16	0.3, 0.2, 0.0 J/g
75°C, 24 h adhesion	12.14	Rating of 1 - 3	3	12/07/16	1, 1, 1
75°C, 28 d adhesion	12.14	Rating of 1 - 3	3	12/07/16	1,1,1
95°C, 28 d adhesion	12.14	Rating of 1 - 3	3	n/a	n/a

† Fulfills the requirement for "Cure" in Z245.20 - 14; Table 2.

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