



# Nap-Gard®

## 7-2732P Series

## Rebar Fusion Bonded Epoxy

Revised: 12 April 2016

### DESCRIPTION

Nap-Gard® Product No. 7-2732P Rebar is a thermosetting epoxy powder designed to coat reinforcing steel rebar to provide corrosion protection. The material is designed for application to pre-fabricated steel rebar. It has been certified to meet the requirements of ASTM A 934-97.

### TYPICAL POWDER PROPERTIES

<b>Color:</b>	Purple	<b>Specific Gravity:</b>	1.44 ± .05
<b>Typical Gel Time:</b> CSA Z245.20-10 @ 205°C (401°F)	<b>7-2732P</b> Standard gel 8 ± 2 Sec	<b>7-2732PLG</b> Long gel 24 ± 4 Sec.	
<b>Shelf Life*:</b> @ 27°C (80°F)	12 months	12 months	

### TESTING OF COATING PER A934-97

<u>TEST</u>	<u>CRITERIA</u>	<u>RESULT</u>
9.1 Film Thickness	90% of readings / 7-12 mils	10-12 mils
A1.2.2.1 Cathodic Disbondment 24 hrs., 3V, 3%NaCl, 65°C 7 days, 1.5V, room temp.	Max 6.0 mm avg. Disbondment Max 2.0 mm avg. Disbondment	3 mm radial Disbondment 3 mm radial Disbondment
X1.9.3.4 Porosity	Rating of 1 or 2	Rating of 2
Salt Spray	Max 3 mm avg. Disbondment	3 mm radial Disbondment
A1.3.5 Flexibility	6° rebound around 6 inch mandrel	No cracking observed
A1.3.1 Chemical Resistance	3m CaCl <sub>2</sub> , 3M NaOH, Distilled water, Ca (OH) <sub>2</sub> saturated	No holidays undercutting or blistering observed.
A1.3.6 Relative Bond Strength in concrete	A944-95 (>85%)	89.7% mean relative bond strength
A1.3.7 Taber Abrasion Resistance (CS 10 wheel, 1 Kg load, 1000 cycles)	< 100 mg removal	25 mg average
A1.3.8 Impact Test G14, 80 in/lb area Deformed by tup.	No cracking or shattering beyond area	
A1.3.4 Chloride Permeability	45 days < 1.0 x 10 <sup>-4</sup> M.	< 1.14 x 10 <sup>5</sup> M

---

**GENERAL APPLICATION PARAMETERS**

**Surface Preparation:**

Clean the surface of the steel reinforcing bar by abrasive blast cleaning to a near white finish in accordance with SSPC-SP10 or to NACE #2. The cleaning shall remove all visual mill scale, rust, and other foreign matter, and shall achieve profile of 2.0 - 4.0 mils over the surface of the bar.

**Cure Specifications:**

Nap-Gard® Rebar 7-2732P Purple Rebar coating cures by residual heat.

- Pre-heat the bars to 450°F (232°C) to 470°F (243°C).
- Apply Nap-Gard® 7-2732P Purple Rebar powder coating to the film thickness required by electrostatic spraying.
- Minimum time to quench is 40 seconds @ 463°F (239°C) application temperature, 90 seconds @ 463°F for long gel version.

Electrically inspect for holidays. Recommend using the following approved repair material.

- Repair damaged areas with 7-1832 liquid epoxy repair or equivalent.

Always consult product Material Safety Data (MSDS) prior to handling.

**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.**