



## DESCRIPTION

AG XP 7123 is a fast set, rapid curing, 100% solids, Flexible, aromatic, two component spray polyurea that can be Applied to suitably prepare concrete and metal surfaces. Its Extremely fast gel time makes it suitable for applications Down to -20°F. It may be applied in single or multiple Applications without appreciable sagging and is relatively Insensitive to moisture and temperature allowing application In most temperatures.

## FEATURES

- Excellent Thermal Stability
- Zero VOC
- No Toxic Vapors
- Odorless
- Meets USDA Criteria
- 100% Solids
- Seamless
- Low Permeance Rate
- Low Temperature Flexibility
- Non-Reactive
- Good Chemical Resistance
- Excellent Color Retention
- Coats Most Metals without Primer
- Installed With or Without Reinforcement in Transitional Areas

## TYPICAL USES

- Airports
- Power Plants
- Refineries
- Structural Steel
- Fertilizer Plants
- Warehouse Floors
- Mining Operations
- Cold Storage Facilities
- Food Processing Plants
- Landfill Containment
- Marine Environments
- Paper and Pulp Mills
- Secondary Containment
- Parking Garage Decks
- Walkways and Balconies
- Water and Waste Water Treatment
- Industrial and Manufacturing Facilities

## COLORS

Clear/Neutral. Custom colors are available upon request. Color Packs, when used, must be added to Part-B. Due to its aromatic composition, AG XP 7123 will tend to yellow or darken in color and will become flat after exposure to UV light. AG XP 7123 may be topcoated within twelve hours of application with an aliphatic polyurethane/ polyurea coating for a colorfast finish.

## PACKAGING

10 gallon kit: 5 gallons Part-A (Isocyanate side) and 5 gallons Part-B (Resin side).

100 gallon kit: 50 gallons Part-A (Isocyanate side) and 50 gallons Part-B (Resin side).

## COVERAGE

AG XP 7123 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

# AG XP 7123

## Two Component Aromatic Polyurea Coating

### TECHNICAL DATA

|   |                     |
|---|---------------------|
| Mix Ratio by Volume .....   | 1A : 1B             |
| Pot Life @ 150°F .....  | 3 - 5 secs          |
| Tack Free Time .....  | 60 - 120 secs       |
| Recoat Time .....   | 0 - 6 hours         |
| Viscosity at 150-160°F (66.5-71°C), Brookfield:   |                     |
| Part-A .....  | 50 ± 20 cps         |
| Part-B .....  | 50 ± 20 cps         |
| Density (Side A & B Combined) .....   | 8.75 lbs/gal        |
| Flash Point .....   | > 200°F             |
| Hardness, ASTM D-2240* .....  | 85 ± 5 A            |
| Tensile, ASTM D-412* .....  | 3000 ± 200 psi      |
| Elongation, ASTM D-412* .....   | 650% ± 50%          |
| Tear, ASTM D-412* .....   | 450 ± 50 pli        |
| Service Temperature .....   | -40°F to 300°F      |
| Water Vapor Permeability, ASTM E-96 .....   | 0.00042 gm/hr . in2 |
| VOC Content .....   | 0 gm/lit            |
| Recommended Applied Thickness .....   | > 2 mm              |
| Return to Service: Foot Traffic .....   | 1 - 4 hours         |
| Return to Service: Full Service .....   | 10 - 24 hours       |
| Taber Abrasion Resistance, ASTM D-4060 (CS17 wheel, 1000 cycles, 1 kg load) (maximum) ..... | 28.1 mg loss        |
| Water Absorption, ASTM D471 (max 23°C, 24 hrs) .....  | < 0.5%              |
| Crack Bridging, ASTM C836 (-25°C, 1.6mm crack, 25 cycles) .....                             | Pass                |
| Impact Resistance @ 25°C .....  | > 200 lbs           |
| Pull-Off Strength (minimum), ASTM D-4541: Inter-Coat Adhesion (within recoat time) .....    | Excellent           |
| Concrete (Shot blast and primed profile), substrate failure occurred .....                  | > 500 psi           |
| Steel (75-100 micron blast profile) .....   | > 900 psi           |
| Lineal Shrinkage .....  | 1 - 2%              |
| Flexibility 1/8"(3mm) Mandrel Bend Test, ASTM D1737 .....                                   | Pass                |
| Resistance to Weathering, ASTM G-23   |                     |

(Type DH Weatherometer-2000 hrs exposure) ..... No cracking or blistering. Color change, gloss reduction & chalking are noted.  
(\*These physical properties from sample sprayed with Graco Foam Cat 200 @ 2000 psi minimum, with Gusmer GX7-400 mechanical purge gun @ 150-160°F. Different machine and parameter will change these properties. User should perform their own independent testing as properties are approximate.)

## SURFACE PREPARATION

In general, coating performance and adhesion are directly proportional to surface preparation. Most failures in the performance of surface coatings can be attributed to poor surface preparation. Polyurea coatings rely on the structural strength of the substrate to which they are applied. All surfaces must be free of dust, dirt, oil, grease, rust, corrosion and other contaminants. When coating substrates previously used, it is important to consider the possibility of substrate absorption, which may affect the adhesion of the coating system, regardless of the surface preparation. Ultimate recognizes the potential for unique substrates from one project to another. The



following information is for general reference, and for project specific questions, contact Ameraguard

#### **New and Old Concrete:**

Refer to SSPC-SP13/NACE 6, or ICRI 03732: CSP 3-5. New concrete must be cured for 28 days prior to product application. Surface must be clean, dry, sound and offer sufficient profile for product adhesion. Remove all dust, dirt, oil, form release agents, curing compounds, salts, efflorescence, laitance and other foreign matter by shotblasting and/or suitable chemical means, in accordance with local chemical regulations. Rinse thoroughly, to achieve a pH between 8.0 and 11.0. Allow to dry completely. If old concrete has a surface that has deteriorated to an unacceptably rough surface, Ameraguard PC-371 or a mixture of Primer 32 and sand should be used as a repair agent for cracks, spalls, bug holes and voids. Upon full cure of the repair agent, prime the entire surface intended for coating.

#### **Concrete Surface Preparation Reference:**

ASTM D4258 - Standard practice for cleaning concrete  
ASTM D4259 - Standard practice for abrading concrete  
ASTM D4260 - Standard practice for etching concrete  
ASTM F1869 - Standard test method for measuring moisture vapor emission rate of concrete  
ICRI 03732 - Concrete surface preparation

#### **Wood:**

All wood should be clean, dry and free of any knots, splinters, oil, grease or other contaminants. Splintered or rough areas should be sanded. Knots should be repaired using Ameraguard PC-371 with sand. Upon full cure of the repair agent, prime the entire surface intended for coating.

#### **Steel (Atmospheric and Immersion Exposure):**

Remove all oil, grease, weld spatters and round off any sharp edges from surface. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Optimum surface profile is 2-3 mils. Prime and shoot AG XP 7123 on to any bare metal the same day as it is cleaned to minimize any potential flash rusting.

#### **Aluminum:**

Aluminum should be blasted with aluminum oxide or sand, and not with steel or metal grit. Excessive blasting may result in a warped or deformed surface. After blasting, wash aluminum with a commercially available aluminum cleaner. Allow to dry, then prime.

#### **Brass and Copper:**

Brass and copper should be blasted with sand, and not with steel or metal grit. Remove all dust and grease prior to applying primer.

#### **Galvanized Surfaces:**

Clean and degrease any contaminated surfaces before priming. Do not blast galvanized surfaces with an abrasive grit. An adhesion test is recommended prior to starting the project.

#### **Fiberglass Reinforced Plastic:**

The gel coat should be lightly blasted or sanded with 80 grit Sand paper and cleaned.

#### **Plastic Foams:**

Enhanced adhesion is obtained when the foam is mechanically abraded. When coating polystyrene, do not use a solvent-based primer.

#### **Textiles, Canvas, Fabrics:**

Adhesion to most fabrics, geothermal, membranes and textiles does not require a primer.

#### **Stainless Steel:**

Stainless steel may be grit blasted and degreased before priming. Some stainless steel alloys are so inert that it is not possible to achieve a satisfactory bond. An adhesion test is recommended prior to starting the project.

#### **New and Old Cast Iron:**

Blast with a steel grit and degrease before priming. Old cast iron is difficult to prepare for a satisfactory bond. It can absorb oil and water soluble contaminants that will keep returning to the surface after the coating system has been applied and affect the coating system adhesion. An adhesion test is recommended prior to starting the project.

#### **All Other Surfaces:**

An adhesion test is recommended prior to starting the project.

#### **MIXING**

AG XP 7123 may not be diluted under any circumstances. Use appropriate cleaner for purge line and flushing of equipment and if spraying stops for periods exceeding the pot life of the material. Thoroughly mix AG XP 7123 Part-B (Resin side) with air driven power equipment until a homogeneous mixture and color is obtained.

#### **APPLICATION**

Both Side-A and Side-B materials should be preconditioned to 75-80°F before application.

Recommended surface temperature must be at least 5°F above the dew point. AG XP 7123 should be applied using a plural component, heated, high pressure 1:1 spray mixing equipment like Graco's Reactor, Glass Craft or other equivalent machine may be used.

Both Part-A and Part-B materials should be sprayed at a minimum of 2000 psi and at temperatures above 150°F. Adequate pressure and temperature should be maintained at all times. AG XP 7123 should be sprayed in smooth, multidirectional passes to improve uniform thickness and appearance.

#### **STORAGE**

AG XP 7123 has a shelf life of six (6) months from date of Manufacture, in factory-sealed containers. Part-A and Part-B drums are recommended to be stored above 60°F. Avoid freezing temperatures. Store drums on wooden pallets to avoid direct contact with the ground.

If stored for a long period of time, rotate Part-A and Part-B drums regularly.

#### **LIMITATIONS**

Do not open until ready to use. Both Part-A and Part-B containers must be fitted with a desiccant device during use.

#### **WARNING**

This product contains Isocyanates and Curative Material

*Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local Ameraguard representative or visit our website for current technical data and instructions.*

#### **LIMITED WARRANTY**

Ameraguard warrants its Linings to be free of manufacturing defects and that they will meet Ameraguard current published physical properties. Ameraguard warrants that its Linings, when properly installed by a state licensed waterproofing contractor according to Ameraguard guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by Ameraguard of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Ameraguard shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. Ameraguard shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. Ameraguard reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

#### **DISCLAIMER**

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Ameraguard makes no claim that these tests or any other tests, accurately represent all environments.