



PolyArmor® 52-39

Product Data



PolyArmor® 52-39 is a 100% solids, rapid curing, 1:1 ratio, aromatic polyurea spray elastomer coating system which exhibits superior performance characteristics. This system has good chemical and abrasion resistance which is designed for industrial, commercial and manufacturing applications. PolyArmor® 52-39 can be applied in film thickness ranging from 10 mils to 250 mils or greater. Multiple coats are necessary for thicker applications.

Product Advantages

- ◆ 100% Solids – Meets SCAQMD Requirements
- ◆ No VOC's
- ◆ Extremely Fast Reactivity
- ◆ Low Perm Rate
- ◆ Low Temperature Flexibility
- ◆ Satisfies EPA method 9090
- ◆ Thermal Stability - Excellent
- ◆ Odorless
- ◆ Meets USDA Criteria
- ◆ Chemical Resistance - Good
- ◆ Installation with or without reinforcement



Typical Uses

PolyArmor® 52-39 is 100% solids two-component spray applied polyurea for use on concrete, wood and metal surfaces. PolyArmor® 52-39 is ideal for applications as a protective coating in:

- ◆ Beverage/Food Processing Plants
- ◆ Cold Storage Facilities
- ◆ Commercial/Retail
- ◆ Entertainment
- ◆ Environmental
- ◆ Gas/Oil - Primary and Secondary Containment
- ◆ Industrial/Manufacturing Facilities
- ◆ Institutional
- ◆ Marine
- ◆ Medical/Pharmaceutical
- ◆ Military
- ◆ Mining/Timber
- ◆ Parking Structures
- ◆ Transportation
- ◆ Utilities
- ◆ Water and Waste Water Treatment
- ◆ Wildlife Enclosures

Coverage Rates

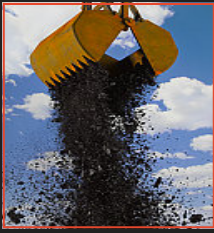
(Theoretical square feet per gallon)

Mils	10	15	50	60	80	100	125
Sq. Ft	160	107	32	27	20	16	13

For questions regarding Case Studies or Chemical Resistance, please contact your Visuron representative.

*Note: 1604 mil inches per gallon; which is totally dependent on substrate texture and condition.

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▶ Typical Physical Properties

Cured Sealant Properties	Test Method	Typical Value
Shore D Hardness	D-2240	52
Tensile Strength (psi)	D-412	4100
Elongation (%)	D-412	375
Tear Strength Notched (pli)	D-624	675
100% Modulus (psi)	D-638	1250
300% Modulus (psi)	D-638	1900
Abrasion Resistance (wt. loss-mg.) 1000 g, 1000 rev. H-18	D-4060	349
Moisture Vapor Transmission	E-96	0.060 perms
Solids Content		100%
Gel Time		3 seconds
Tack Free		9 seconds
Open to Traffic		60 minutes

NOTE: TEST RESULTS WERE OBTAINED IN A CONTROLLED LABORATORY ENVIRONMENT AND VISURON MAKES NO CLAIM THAT THE TESTS RESULTS ACCURATELY REPRESENT ALL ENVIRONMENTAL OR JOBSITE CONDITIONS. PHYSICAL AND PERFORMANCE PROPERTIES AND MAY VARY BASED ON THE TYPE OF APPLICATION/SPRAY EQUIPMENT USED.

▶ Storage

POLYARMOR® 52-39 has a shelf life of 1 year shelf life from the date of manufacture, in factory-sealed containers. Storage temperature for Part-A and Part-B is between 59°F - 77°F (15°C - 25°C), avoid freezing temperatures. Keep containers sealed tightly to eliminate any condensation, moisture, or water contamination in Part-A or Part-B.

▶ Application

The use of primer is recommended on all substrates. See detailed information on primer from recommended recoat times. Substrate temperature should be greater than 32°F (0°C). Prior to application; precondition both parts (A & B) to approximately 77°F (25°C).

Insure that the outside temperature is at least 5°F (-15°C) above the dew point.

Proportioner recommendations:

- ◆ 1:1 Ratio, High-Pressure, Plural Component Spray Equipment
- ◆ Spray pressures 2500 psi minimum
- ◆ Preheaters/ hoses 165°F- 170°F (74°C- 77°C)

LIMITED WARRANTY: Read all information in the product data sheets, and material safety data sheets (MSDS) before applying material. Product information and instructions are subject to change without notice. Contact your Visuron agent or visit our website for current product information and instructions. Products manufactured by Visuron are free of defects and will meet Visuron's current published physical properties. There is no other warranties given by Visuron of any kind implied, or expressed, including any warranty of fitness for a particular purpose, and/or merchantability in connection with this product.

DISCLAIMER: The data and information contained herein doesn't create a material or sales specification. The information contained in this data sheet does not guarantee that any hazards listed herein are the only one(s) which may occur. Product and application instructions are provided for the purpose of establishing a general profile and that they will meet Visuron's current published physical properties. Visuron makes no claim as to the accuracy of the information, but every effort has been made to ensure the accuracy of information contained in the Technical Datasheet. The end user should check the suitability of this product for its intended application prior to use.

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