



**VISURON**  
TECHNOLOGIES, INC.

# PolyArmor® 80-525

## Product Data



Polyarmor® 80-525 high performance, 100% solids polyurea spray elastomer has excellent physical properties. This system is a chemical resistant, abrasion resistant, tough, 1:1 ratio spray coating exhibiting rapid and consistent cure in applications ranging from -20° F to over 300° F.

Polyarmor® 80-525 is specifically designed to be used in applications requiring a flexible coating system with extremely high performance and superior overall toughness.



## Product Advantages

- ◆ Good chemical resistance/Low shrink
- ◆ 100% solids, no VOC's
- ◆ 525% elongation
- ◆ Excellent thermal stability
- ◆ Shock resistant
- ◆ Tack free time 25 seconds
- ◆ Satisfies EPA method 9090
- ◆ Low perm rate
- ◆ Cures -20° F to 300° F
- ◆ Return to service in 60 min.
- ◆ Extremely high overall strength
- ◆ Bridges gaps up to 1/16 inch wide

## Typical Uses

Polyarmor® 80-525 is well suited for primary and secondary containment areas applied to geotextiles, concrete or corrugated steel berm walls requiring a tack free time of 25-30 seconds. This system was designed to have extreme physical properties including 525% elongation, 2500 psi tensile strength with an extremely low moisture vapor transmission to meet the demand of industries including but not limited to: Natural Gas & Oil, Petrochemical, and a variety of agencies (EPA, DEP, DEQ, DOE, TCEQ, etc).

- ◆ Gas & Oil Primary and Secondary Containment
- ◆ Direct to Geotextiles
- ◆ Concrete sealer
- ◆ Secondary Containment Areas
- ◆ Tank Linings
- ◆ Waster Water Linings
- ◆ Digester Linings
- ◆ Mechanical Rooms
- ◆ Pulp & Paper Mills
- ◆ Fertilizer Plants
- ◆ Petrochemical facilities
- ◆ Pipe Line Coating
- ◆ Cooling Tower Lining
- ◆ Petroleum Prod. & Storage
- ◆ Oil & Gas Transmission
- ◆ Refineries
- ◆ Manufacturing Facilities



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

### VISURON Polyarmor® 80-525 TDS

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## ▶ Typical Physical Properties

Typical Physical Properties	Test Method	Value
Tensile Strength (psi)	D-412	2500
Elongation (%)	D-412	525
Tear Strength (pli)	D-624	450
Shore Hardness ( "A" scale)	D-2240	80
Moisture Vapor Transmission	E-96	(perm. In.) 0.025
Abrasion Resistance ( wt. Loss-mg.) H-18, 1000g, 1000 rev.	D-6040	280
Flash Point, components ( °F)		>200
Gel Time / Tack Free		5 sec. / 25 sec.
Flexibility Test Gardner impact, in.-lbs. (on 1/32" steel panels) Direct and Indirect	D-2794	Pass

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.

## ▶ Coverage Rates

(Theoretical square feet per gallon)

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

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

## ▶ Storage

POLYARMOR® 80-525 has a 1 year shelf life from the date of manufacture in a factory-sealed, unopened container stored at room temperatures 59°F- 77°F (15°C- 25°C).

## ▶ Application

POLYARMOR® 80-525 is a plural-component, fast cure, spray polyurea system. Equal volumes of parts "A" and "B" are proportioned and dispensed through high pressure, high temperature spray equipment.

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)

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**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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