



**POLYCOAT  
PRODUCTS**  
A Division of American Polymers Corp.

**POLYEURO® 5502**  
*Two Component Aromatic  
Polyurea Protective Coating*

**DESCRIPTION**

Polyeuro® 5502 is a fast set, rapid curing, 100% solids, flexible, aromatic, two component spray polyurea that can be applied to suitably prepared 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**

- ❖ Zero VOC (100% Solids)
- ❖ Excellent Thermal Stability
- ❖ No Toxic Vapors
- ❖ Meets USDA Criteria
- ❖ Low Temperature Flexibility
- ❖ Good Chemical Resistance
- ❖ Coats Carbon or Mild Steel Metals without Primer
- ❖ Installed With or Without Reinforcement in Transitional Areas
- ❖ Seamless
- ❖ Odorless
- ❖ Non-Reactive

**TYPICAL USES**

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

**COLORS**

Neutral. Custom colors are available upon request.

Due to its aromatic composition, Polyeuro® 5502 will tend to yellow or darken in color and will become flat after exposure to UV light. Polyeuro® 5502 may be topcoated with an aliphatic polyurethane/polyurea coating for a colorfast finish.

**PACKAGING**

10 gallon kit: One 5 gallon pail of Part-A and one 5 gallon pail of Part-B.

100 gallon kit: One 50 gallon drum of Part-A and one 50 gallon drum of Part-B.

**COVERAGE**

Polyeuro® 5502 may be applied at any rate to achieve desired thickness. Theoretical coverage for 1 mil thickness is one gallon per 1600 sq. ft.

**TECHNICAL DATA**

Mix Ratio by Volume .....	1A : 1B
Pot Life .....	2-4 seconds
Tack Free Time .....	60-120 secs
Recoat Time .....	0-12 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 .....	50 ± 5 D
Tensile, ASTM D-412* .....	3000 ± 200 psi
Elongation, ASTM D-412* .....	425% ± 20%
Tear, ASTM D-412* .....	450 ± 50 pli
Service Temperature .....	-40°F to 250°F
Water Vapor Permeability ASTM E-96 .....	0.00042

(\*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**

Refer to general guidelines for complete information.

**MIXING**

Polyeuro® 5502 may not be diluted under any circumstances. Use appropriate solvent for solvent purge line and flushing of equipment and if spraying stops for periods exceeding the potlife of the material. Thoroughly mix Polyeuro® 5502 Part-B Base material with air driven power equipment until a homogeneous mixture and color is obtained.

**APPLICATION**

Polyeuro® 5502 should be applied using a 1:1 plural component equipment capable of developing a minimum of 2000 psi and heating the individual component to 170°F using an impigment gun. Hose temperature should be maintained at 160-170°F. The Polyeuro® 5502 material should be pre-heated to 75-85°F.

Polyeuro® 5502 should be sprayed in multidirectional passes for a proper uniform thickness.

**EQUIPMENT CLEAN UP**

Equipment should be cleaned with an environmentally safe, urethane-grade solvent (alcohol free) as permitted under local regulations immediately after use.

**STORAGE**

Polyeuro® 5502 has a shelf life of one (1) year from date of manufacture in factory sealed containers.

Part-A and Part-B drums must 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.

#### **WARNING**

This product contains Isocyanates and Curative Material.

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*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 Polycoat Products representative or visit our website for current technical data and instructions.*

#### **LIMITED WARRANTY**

Polycoat Products warrants its products to be free of manufacturing defects and that they will meet Polycoat Products current published physical properties. Polycoat Products warrants that its products, when properly installed by a state licensed waterproofing contractor according to Polycoat Products 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 Polycoat Products of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. Polycoat Products 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. Polycoat Products 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. Polycoat Products 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**

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