

Technical Datasheet

Prime Guard 7000 Aromatic



Spray applied, high-strength polyurea coating

Description

High strength, hot spray-applied aromatic polyurea coating that offers ultimate durability, chemical and abrasion resistance and protection. This is a two-component, high solids content, polyurea coating. It passes ASTM G210 Severe Wastewater Analysis Testing, which evaluates protective barrier performance in corrosive sewer headspace environments.

Primary Applications

- Manholes
- Tanks
- Pipes
- Secondary containment
- Walls
- Floors
- Railcars
- Bridges

Advantages

- High elongation and tensile strength
- Rapid cure
- Excellent adhesion
- Spray application
- 40 to 350°F (4.44 - 177°C) service temperature
- High chemical and abrasion resistance
- Resistant to hydrogen sulfide-related corrosion
- **Passes ASTM G210 Severe Wastewater Analysis Testing**

Packaging

- 100 gallon drum sets
- 500 gallon drum sets

Technical information: Physical properties at 73°F (23°C)

Properties will vary depending upon site conditions, application method, mixing method and equipment, material temperature, and curing conditions.

Test Data		
Color	Natural	
Cure time (at 170°F (77°C))	2-5 sec gel time	
Foot traffic	60 minutes	
Vehicle traffic	24 hours	
Heat deflection temperature	257°F (125°C)	ASTM D648
Hardness (shore D)	45 D	ASTM D-2240
Flexibility (1/8 mandrel)	Pass	ASTM D-522
Tensile strength	2150 psi	ASTM D-638
Flashpoint	> 200°F (93°C)	ASTM Pensky-Martin
Elongation	612%	ASTM D-638
Tear strength	550 PLI	ASTM D-624
Taber abrasion	30 mg loss	ASTM D-4060
Vapor transmission	.0247	ASTM E-96
Adhesion strength to primed concrete	> 375 psi (concrete failure)	ASTM D-4541
Corrosion (barrier protection)	Pass	ASTM G-210
Coverage	40 square feet (3.72 square meters) / gallon @ 40 mils 20 square feet (1.86 square meters) / gallon @ 80 mils	

Accessory Products

HydroLock primer

Directions For Use

Mixing Ratio:

A:B 1:1 by volume

Must use a plural component, high pressure, heated proportioned pump such as the PMC GH-40-809-A30.

Material Preparation: Store material overnight to precondition to between 70 and 80°F (21 and 27°C) prior to use. Pre-mix "B" component prior to combining. Thoroughly mix using a 34" tall drum bung mixer with folding impellers such as the IPM DM-101. Failure to properly pre-mix will result in uncured or improperly cured material.

Limitations: Do not use below 20°F (7°C). Material that is off ratio or not mixed thoroughly will not cure to full strength and may remain tacky indefinitely.

Storage & Clean Up

Storage: Store in dry environment between 40° and 80°F (4.4 - 27°C). Do not allow product to freeze. Shelf life: 6 months from date of manufacture in unopened containers properly stored. Protect from moisture.

Clean Up: Clean off skin with soap and water immediately.

Environmental Protection

Cured material is environmentally safe. Dispose of in accordance to appropriate regulations. Clean up any spilled catalyzed liquid material and dispose of according to local, state and federal regulations.

Shipping

Shipping Class: Flammable liquids, N.O.S. Resin Solution, UN 1866, Class 3, PG II

D.O.T. Hazard Classification: 3

Health & Safety

Safety: Use OSHA-approved personal protective equipment (PPE), including safety glasses, gloves and confined space equipment/procedures if applicable. Avoid skin contact; do not ingest. See SDS for complete safety precautions. For professional use only.

First Aid

Eye Contact: Immediately flush with large amounts of water. Seek medical attention. **Inhalation:** Move to fresh air if symptoms occur. If breathing is difficult, seek medical attention. **Ingestion:** Seek medical attention immediately. **Skin Contact:** Wipe off contaminated area and wash with soap and water immediately.

Manufacturing

Products manufactured by Prime Resins, Inc. in U.S.A. under strict quality assurance practices at our Conyers, GA plant.

Warranty & Disclaimer

Prime Resins, Inc. warrants its products to be free from manufacturing defects and that products meet the published characteristics when tested in accordance with ASTM and Prime Resins standards. No other warranties by Prime Resins, Inc. are expressed or implied, including no warranty of merchantability or fitness for a particular purpose. Prime Resins, Inc. will not be liable for damages of any sort resulting from any claimed breach of warranty. Prime Resins' liability under this warranty is limited to replacement of material or refund of sales price of the material. There are no warranties on any product that has exceeded the "shelf life" or "expiration date" printed on the package label.