

Product Description

Baytec 2595 is a state-of-the-art, high-performance, sprayed plural-component polyurea elastomer. This system demonstrates great versatility because of its extreme resilience to damage. Baytec 2595 provides a tough, long-lasting and flexible membrane to protect surfaces from mechanical traffic, falling equipment, harsh chemicals, water damage and other substrate abuses.

Unique Properties

Baytec 2595 is a seamless membrane that can be handled or walked on within thirty (30) seconds after spraying. Due to almost instantaneous gel time, Baytec 2595 can be built up to any thickness in one pass. For even coating coverage, however, multiple applications in a crisscross pattern is recommended.

Baytec 2595 standard colors are white, light grey, neutral, and black. Custom colors will be quoted upon request. Baytec 2595 is an aromatic coating. Aromatic coatings are not color stable. For color stable coatings ask your technical representative about aliphatic materials.

100% solids. No solvents. No VOCs. USDA Approved.

Recommended Uses

- Warehouse floors
- Cold storage and freezers
- Steel tanks, silos, and pipes
- Bottling and canning facilities

- Waste water treatment plants
- Fertilizer and other processing plants
- Refineries
- Poultry Farms
- Pulp and paper mills
- Concrete tanks
- Encapsulant for Styrofoam and other types of floatation
- Concrete dikes, irrigation ditches, and tunnels
- Walls and ceilings in food processing facilities
- Protective elastomer for spread-in place urethane foam

Environmental Consideration, Substrate Temperatures and Preparation

The material supplied is two components (Component A/Component B) used to formulate Baytec 2595. The quality and characteristics of the finished polymer is determined by the mixture and application of the two components

Substrate surfaces to which Baytec 2595 may be applied must be clean, dry, free of oil and other surface contaminants. The surface should be broken by grinding, sanding, or sand blasting. A primer may be required, subject to type and/or condition of substrate. Consult technical service personnel for specific primer recommendations and substrate preparation procedures or reference the primer/substrate chart on the Baysystems website at www.baysystemsspray.com by clicking materials/primers. (continued)

Typical Physical Properties

Dry Physical Properties

Properties	Test Method	Value
Tensile Strength:	ASTM D-412	2600 psi ± 50
Elongation:	ASTM D-412	250% ± 25%
Hardness (Shore A):	ASTM D-2240	95 ± 5
Tear Resistance (Die "C"):	ASTM D-624	400 pli ± 10

Test values may vary depending on type of equipment, equipment settings and environmental conditions.

Product Reactivity & Application

Effective Gel Time (Seconds):	15-20
Tack Free Time (Seconds):	20-30
Final Cure (Hours):	72
Flash Point:	>275°F "B" Component >230°F "A" Component
Clean-up Solvent:	NMP or MEK
Thinner:	Not Used
Appearance "B" Component:	Clear amber or pigmented liquid
Appearance "A" Component:	Clear amber liquid
Shelf Life:	Twelve (12) months in unopened containers; stored between 60-100°F

Processing Parameters & Physical Characteristics

Pre-heater Temperature:	"A" and "B" 160-170°F
Hose Temperature:	"A" and "B" 160-170°F
Pressures:	2200-2600 psi (dynamic)*
Mix Ratio/Parts:	1 to 1 by volume "A" to "B"
Viscosity at 77°F:	400-600cps "B" Component 600-800cps "A" Component
Solids by Volume at 77°F:	100%
Solids by Weight at 77°F:	100%
Weight per gallon (approx):	8.55 lbs. "B" Component 9.2 lbs. "A" Component
Theoretical Coverage DFT @16mils (0.4mm):	100 s.f. (9.1m ² /gal)
Volatile Organic Compounds:	0 lbs./gal (0g/l)
Water and Oil Resistance:	Excellent
Service Temperature:	-60°F to +300°F

Note: Complete polymerization to achieve final strength can take up to several weeks, depending on a variety of conditions.

*Dependent upon hose length

Baytec™ 2595

Environmental Consideration, Substrate Temperatures and Preparation (continued)

Baytec 2595 can be sprayed over a broad range of ambient and substrate temperatures. Contact Baysystems personnel for applications outside of standard ambient/substrate temperatures between 40°-100°F or for specific recommendations, pricing, and availability of spray auxiliary equipment. Minimum material/container temperature for spray application is 80°F ±10°F (27°C). It is recommended that Baytec 2595 be sprayed in a crisscross pattern to ensure uniform thickness.

Storage above 60°F is recommended to prevent separation. While infrequent separation does occur below 50°F, heating above 140°F with occasional slow stirring will restore the Baytec 2595 to its original condition.

CAUTION: Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the “A” and “B” components.

Solvents such as MEK (Methyl Ethyl Ketone) or NMP may be used for cleanup of liquid components with adequate provision for thorough ventilation and flammability. The use of protective gloves and hand creams is strongly urged.

Processing Equipment & General Application

The polyol “B” component must be thoroughly power mixed each day, prior to use.

Follow instructions attached to “A” and “B” containers.

Recommended Equipment and Settings:

Standard 1:1 ratio, heated, plural component equipment developing a minimum of 2200 psi dynamic pressure will adequately spray Baytec 2595. Contact Baysystems for equipment and gun recommendations.

Pre-heater temperature settings: 160-170°F (71-76°C)

Hose temperature settings: 160-170°F (71-76°C) a hose thermometer inserted under the insulation near the gun should read a minimum of 145-155°F (63-68°C).

Physical properties will be enhanced when sprayed at higher pressure (2000 psi or more) (13.9 mpa), utilizing an impingement mix gun and tip.

General Safety, Toxicity, & Health Data

Material Safety Data Sheets are available on this coating material. Any individual who may come in contact with these products should read and understand the M.S.D.S. In case of emergency contact CHEMTREC EMERGENCY NUMBER at 800-424-9300.

WARNING: Contact with skin or inhalation of vapors may cause an allergic reaction. Avoid eye contact with the liquid or spray mist. Hypersensitive persons should wear protective clothes, gloves and use protective cream on face, hands and other exposed areas.

CLEAN UP: Use NMP or MEK

CONTAMINATION: Avoid moisture contamination in containers. Containers should not be resealed if contamination is suspected, carbon dioxide created pressure can develop. Do not attempt to use contaminated material.

EYE PROTECTION: Safety glasses, goggles, or a face shield are recommended.

SKIN PROTECTION: Chemical resistant gloves are recommended. Cover as much of the exposed skin area as possible with appropriate clothing.

RESPIRATORY PROTECTION is MANDATORY! Respiratory protective equipment, impervious foot wear and protective clothing are required at all times during spray application. Contact Baysystems for a copy of the Model Respiratory Protection Program developed by API.

INGESTION: Do not take internally. It is believed that ingestion of polymeric isocyanates would not be fatal to humans, but may cause inflammation of mouth and stomach tissue.

Consider the application and environmental concentrations in deciding if additional protective measures are necessary.

Disclaimer

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