



## Description

Nitrocoat 1575 is a state-of-the-art, high-performance, sprayed plural-component polyurea elastomer. Nitrocoat 1575's combination of high elongation and tensile strength creates a membrane with excellent impact resistance. When used in large span areas, this product creates a liner free of seams that won't shrink and withstands movement from contraction and expansion. These characteristics make Nitrocoat 1575 ideal for an impact resistant (hail and foot traffic) protective coating over polyurethane foam in roofing applications. The high-elongation formula creates an ideal liner for decorative ponds, aquaculture farms and industrial tanks.

## Unique Properties

Nitrocoat 1575 is a seamless membrane that can be handled or walked on within five (5) minutes after spraying. Nitrocoat 1575's unique polyurea formula provides excellent resistance to chemicals and hydrolysis while offering superior sprayability and ease of processing. Due to a fast gel time, Nitrocoat 1575 can be built up to any thickness in one pass. However, for even coating coverage, multiple applications in a crisscross pattern is recommended.

Nitrocoat 1575 standard colors are black, tan, gray, green, red, blue and yellow. Custom colors will be quoted upon request. Nitrocoat 1575 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

- Roofing systems
- Marine tanks and sanitation ponds
- Earthen containment lining used with geotextile
- Concrete tanks, ponds, lagoons, reservoirs, dikes, irrigation ditches, tunnels.
- Membrane covering used with geotextile fabrics to encapsulate contaminates in landfill applications
- Replace or repair failed existing sheet membrane liners
- Cold storage and freezers
- Primary and secondary containment

## General Application Instructions

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 2000 psi (69 bar) dynamic pressure will adequately spray Nitrocoat 1575. Contact UCSC 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.

## Typical Physical Properties

Application	Physical Characteristics	Dry Physical Properties
<p>Effective Gel Time: 20-25 seconds</p> <p>Tack Free: 98-120 seconds</p> <p>Final Cure: 72 hours</p> <p>Clean-up Solvent: NMP, Polyclean</p> <p>Thinner: Not used</p> <p>Mixing Ratio by Volume: 1:1</p> <p>Flash Point: 500°F</p> <p><i>*Complete polymerization to achieve final strength can take up to several weeks, depending on a variety of conditions.</i></p>	<p><b>Appearance:</b></p> <p>A: Clear Amber Liquid</p> <p>B: Clear Amber or Pigmented Liquid</p> <p><b>Shelf Life:</b></p> <p>Six (6) months in unopened containers.</p> <p>Stored between 60°F and 100°F</p> <p><b>Water and Oil Resistance:</b></p> <p>Excellent</p> <p><b>Service Temperature:</b></p> <p>-60°F to +300°F</p>	<p><b>Wet Physical Properties</b></p> <p>At 77°F (25°C)</p> <p><b>Solids by Volume:</b> 100%</p> <p><b>Solids by Weight:</b> 100%</p> <p><b>Volatile Organic Compounds :</b> 0 lbs./gal (0g/l)</p> <p><b>Theoretical Coverage DFT :</b> at 16 mils (0.4mm) 100 s.f. (9.1m<sup>2</sup>/gal)</p> <p><b>Weight per gallon (approx):</b> A: 9.2 lbs. B: 8.55 lbs.</p> <p><b>Viscosity (cps):</b> A: 600-800 B: 400-600</p>

**Note:** The material supplied is two components (Component A / Component B) used to formulate Nitrocoat 1575. The quality and characteristics of the finished polymer is determined by the mixture and application of the two components.

Substrate surfaces to which Nitrocoat 1575 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 UCSC website at [www.buyucsc.com](http://www.buyucsc.com) by clicking materials/primers.

Nitrocoat 1575 can be sprayed over a broad range of ambient and substrate temperatures. Contact UCSC personnel for applications outside of standard ambient/substrate temperatures between 40° - 100°F or for specific recommendations, pricing, and availability of spray and auxiliary equipment. Minimum material/container temperature for spray application is 80°F ±10°F (27°C). It is recommended that Nitrocoat 1575 be sprayed in a crisscross pattern to ensure uniform thickness.

Solvents such as MEK (Methyl Ethyl Ketone), trichloroethane 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.

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 Nitrocoat 1575 to its original condition.

### 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

**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 UCSC for a copy of the Model Respiratory Protection Program developed by API or visit the UCSC website at [www.buyucsc.com](http://www.buyucsc.com) and click materials/safety documents.

**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.

### Warranty and Disclaimer

The data presented herein is not intended for non-professional applicators or those persons who do not purchase or utilize this product in the normal course of their business.

The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer. The aforementioned data on this product is to be used as a guide and is subject to change without notice.

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