

# SwiftSeal Prime PR300 | Polyurethane Based Primer

## Product Description

SwiftSeal Prime PR300 is a two-component polyurethane based primer designed to be used in conjunction with spray polyurethane foam and polyurea/hybrid topcoats. PR300 can be applied by brush, roller, or plural-component proportioner. It is designed to create a strong bond between the substrate and top coating. PR300 can reduce the number of pinholes on porous surfaces as well as sealing the concrete for top coating polyureas.

## Recommended Uses

Concrete and carbon steel substrates. Primer for polyurea and polyurethane top-coatings.

## Shelf Life

Six month shelf life when stored properly.

## Storage

Store in a dry shaded location. Keep drums conditioned between 10-27°C (50-80°F). Keep drums tightly sealed when not in use.

## Packaging

- 5 Gallon Pails / 10 Gallon Sets (38 Litres)
- 50 Gallon Drums / 100 Gallon Sets (380 Litres)
- Natural or Grey

## Yield

Approximately 300 ft<sup>2</sup> per gallon at 4mils (28 m<sup>2</sup> per liter at 0.1mm)

## Health and Safety Information

Appropriate literature has been assembled which provides information concerning the health and safety precautions that must be observed when handling this product. Before working with this product, you must read Safety Data Sheet and become familiar with the available information on its risks, proper use, and handling. This cannot be overemphasized. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Elastochem representative.

## Typical Properties\*

| Attribute                                     | Test       | Results        |
|---|------------|----------------|
| Mixed Viscosity                               | ASTM D4878 | 380 - 440 cP   |
| Common Polyurea Concrete Adhesion - UNPRIMED  | ASTM D4541 | < 450 psi      |
| Common Polyurea Concrete Adhesion - PR300     | ASTM D4541 | > 1000 psi     |
| Common Polyurea Carbon Steel Adhesion - PR300 | ASTM D4541 | > 1000 psi     |
| GARDCO Gel Time (21°C or 70°F)                | -          | 60 - 75 min    |
| Pot Life (21°C or 70°F)                       | -          | 20 - 40 min    |
| Polyurea Topcoat Window (21°C or 70°F)        | -          | 1.5 - 24 hours |

\* Note: This data is based on in-house tests. Application conditions and methods may affect these values.

## Processing Data

| Attribute                          | Part A                        | Part B |
|------------------------------------|-------------------------------|--------|
| Mix Ratio (by Volume)              | 1                             | 1      |
| Mix Ratio (by Weight)              | 1                             | 0.82   |
| Resin/ISO Conditioning Temperature | 65 - 75°F (18 - 27°C)         |        |
| Substrate Application Temperature  | 40 - 100°F (5 - 38°C)         |        |
| Recommended Application Thickness  | 1 - 10 mils (0.025 - 0.25 mm) |        |

**DISCLAIMER:** This data is based on information believed to be reliable and is offered solely for evaluation. Elastochem Specialty Chemicals Inc.'s products are sold with the understanding that clients do their own testing to determine the suitability of these products for their particular application. Since the use of this product is beyond the control of the Seller, the Buyer assumes all risks of use or handling, whether in accordance with directions or not, as the Seller makes no warranty, expressed or implied, concerning this product.



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### Surface Preparation - Concrete

- The concrete should be fully cured 28 days, structurally sound (200 psi or greater according to ASTM D7234), clean (ASTM D4258), and dry (less than 5%, ASTM E1907).
- It is recommended to profile surface to ICRI Guide 03732 to a minimum of CSP 3 by abrasive blasting.
- Water, dirt or oils present will result in poor adhesion.
- Apply product only if surface temperature is 5° F (3° C) above dew point to avoid application over damp surface.
- Avoid rising concrete temperatures as it can result in concrete outgassing and pinholes. To reduce the risk of pinholes from outgassing, apply primer and topcoat when the concrete temperature is stable or falling.
- The surface should have low moisture vapor transmission (less than 3 lb/24 hr/1000 ft<sup>2</sup>, RMA Test Method).
- Use continuously dry compressed air to blow out loose debris, dirt and dust prior to applying product. Concrete can be torched dry. If moisture returns immediately after torching, stop and do not install.
- Fill all voids, bugholes and cracks with suitable filler. Contact your Elastochem representative for filler options and technical recommendations.
- Primer is not recommended for use on asphaltic materials, bare ground, dirt, or other non-structural surfaces. Contact Elastochem representative before using on surfaces intended for immersion.

### Surface Preparation - Carbon Steel

- Carbon steel surfaces should be cleaned before blasting according to SSPC-SP1. Remove any sharp edges, weld splatters and other surface imperfections.
- Abrasive blast the surface according to SSPC-SP10 / NACE No. 2 Near White standard.
- Apply product only if metal surface temperature is 5°F (3°C) above dew point to avoid application over damp surface.
- Apply primer within the same day of blasting to reduce the occurrence of flash rusting or oxidation.
- For aluminum, stainless and galvanized metals contact your Elastochem representative. Contact Elastochem representative before using on surfaces intended for immersion.

### Manual Mixing Application

- **\*Resin separates and must be mixed individually before subdividing.**
- The resin and iso must be thoroughly mixed before application. The material will not cure properly if it is improperly mixed.
- Condition PR300 to approximately 70°F (21°C) before use. Cold material may become thick and result in long recoat times. Hot material may result in poor pot life.
- Protect non-coated surfaces around application area.
- PR-300 can be mixed using a common mixing blade approximately 1/3 the diameter of the pail or mixing vessel. Use a drill capable of >500RPM.
- Mix material in a 1:1 (resin:iso) ratio by volume. Mix both components together for 30 seconds, scrape the edges of the container and mix for additional 30 seconds.
- Apply PR300 onto the surface by pouring, rolling or brushing. If material begins to gel stop and dispose of solidified material.
- Allow material to become tack free before applying polyurea topcoat. Typically between 2 to 3 hours.
- Avoid “puddling” of primer. Puddled primer can result in long tack times and foaming/blistering of topcoat. Remove excess primer by scraping.
- Avoid applications of topcoats when primer has cured longer than the 24 hour window. Contact Elastochem for more details.

### Spray Application

- Proportioner must generate a minimum spray pressure of 1000 psi, maintain a stable pressure during spray and keep minimal pressure imbalance.
- Resin and ISO Temps should be between 110°F – 150°F on pre-heaters and hose heaters.
- It is recommended to spray and backroll PR300 over concrete surfaces.
- Contact your Elastochem representative for plural component



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