SwiftSeal P 150 | Two Component, Solvent-Free Polyurethane Primer

(Formerly known as SwiftSeal Prime PR300)

Product Description

SwiftSeal P 150 is a low viscosity, two-component, solvent-free, rapid-curing polyurethane primer designed to exhibit excellent adhesion to concrete, carbon steel and other substrates.

Field of Application

SwiftSeal P 150 is primarily designed as a primer for use on both concrete, carbon steel and asphalt substrates in specific traffic deck, refurbishment applications. When applied on concrete substrates, **SwiftSeal P 150** should only be used substrates with a moisture content of less than 5%, and where there is no risk of condensation, moisture, or exposure to rain.

Features

- Solvent-free
- Low viscosity
- Excellent penetration
- 100% solids
- Excellent bond strength
- Seals concrete pores

Application Method

These application instructions are to be used as a guide. Adjustments to the application instructions may be required based on specific site conditions. A test patch should be used to confirm the product performance and application techniques for each project.

Substrate Conditions

New Concrete: New concrete must be cured for a minimum of 7 to 10 days before applying the primer. Concrete substrates should be structurally sound, dry, and free of laitance, loose particles, oil, grease, rubber skid marks, paint stains, and other contaminants that could impair adhesion. Mechanical surface profiling methods such as grit or shot blasting, high-pressure water jetting, grinding, or scabbling (including necessary post-treatment) are preferred.

After surface preparation, the substrate's tensile strength should exceed 1.5 N/mm^2 (218 psi) (verify using an approved pull-off tester at a load rate of 100 N/s). The residual moisture content of the substrate must not exceed 5% (check with a suitable device, e.g., a CM device). The substrate and ambient temperature should be above 5°C to ensure proper adhesion and curing. The substrate temperature must be at least 3°C above the dew point prior to membrane application.

Old Concrete: Remove all existing coatings down to bare concrete. Eliminate spalling, chipping, or any unsound areas, and repair these sections prior to applying the polyurethane primer. Fill large holes and cracks with suitable, compatible repair material to ensure a solid, even surface.

Technical Data

Attribute	Results
Mix Ratio (by Volume)	1 (Part A) to 1 (Part B)
Mix Ratio (by Weight)	1 (Part A) to 0.82 (Part B)
Viscosity	380 - 440 cps
Conditioning Temperature	18 - 27°C (65 - 75°F)
Pot Life @ 21°C (70°F)	20 - 40 minutes
Re-Coat Interval @ 21°C (70°F)	Min. 2 hours Max. 24 hours
Substrate Application Temperature	Min. 5°C (41°F) Max. 40°C (104°F)

* Note: This data is based on laboratory tests, application conditions and methods may affect these values.

Asphalt: Must be shot or grit blasted to expose at least 60% of the aggregate surface.

Mixing

Before mixing, precondition both components (A and B) to a temperature of approximately 15–25°C. Part B container can separate and must be mixed before combining with Part A.

- Use an electric drill with a spiral (Jiffy) mixing paddle at a slow speed of 300 - 400 RPM for thorough mixing.
- Mix continuously for a minimum of 3 minutes, ensuring the components are fully blended.
- Frequently scrape down the sides of the container during mixing to achieve a uniform mixture.
- The mixed epoxy is ready for use immediately; no induction time is required.
- When pouring, avoid scraping sides of container to prevent any unmixed material from being applied to substrate
- Do not reuse the mixing container for additional batches.

Note: Do not mix new material with old, uncured material, as this can significantly reduce work times. Use fresh pails frequently for mixing.

Application Conditions

Apply **SwiftSeal P 150** when the ambient temperature is stable or decreasing, to minimize bubble formation caused by air expansion in the concrete. After mixing, apply the material to the prepared substrate using a squeegee, followed by a roller for a smooth finish. If broadcast sand is to be used, broadcast oven-dried sand into the still-wet primer.

Curing and Environmental Conditions

The curing time is influenced by ambient, material, and substrate temperatures. Lower temperatures slow chemical reactions, extending pot life, open time, and cure times. Higher temperatures accelerate reactions, shortening these time frames. To ensure proper curing, the temperature of the material, substrate, and application surface should not fall below the minimum recommended levels.

Post-Application Protection

Protect the applied coating from direct contact with water for approximately 4 hours at 15°C (59°F).

Coverage

Coverage rates of **SwiftSeal P 150** will vary depending upon the porosity of the substrate. One gallon typically covers an area of **100 - 150 ft²** at a thickness of 10 - 15 mils (0.25 - 0.4 mm), this translates to approximately 0.25 - 0.4 L/m².

A second coat of **SwiftSeal P 150** is recommended for particularly porous substrates.

Packaging

SwiftSeal P 150 is available in sets of 10 gallons, comprising:
Part A: 5 gallon (18.9 L) pail
Part B: 5 gallon (18.9 L) pail

Storage & Shelf Life

12 months if stored in original containers under dry conditions at a temperature between 10°C - 32°C. Keep away from extreme cold, heat, and moisture. Protect from direct sunlight and fire hazards.

Health and Safety

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 Sheets and become familiar with the available information on its risks, proper use, and handling. Information is available in several forms, e.g., safety data sheets and product labels. For further information contact your Elastochem representative.

Conditions and Limitations

Proper application is the responsibility of the user. Field visits by Elastochem representatives are intended for technical recommendations only and do not include supervision or quality control on the job site.

Avoid application during inclement weather or when rain is present or imminent. Do not apply **SwiftSeal P 150** on wet or contaminated surfaces.

SwiftSeal P 150 must be covered with a compatible coating or flashing material. Contact the manufacturer for recommendations on approved finished materials. Patching materials used to fill voids in the substrate wall system must be compatible with both the substrate and the membrane.

Disclaimer

The information provided, particularly regarding the application and end use of Elastochem products, is given in good faith based on the company's current knowledge and experience when the products are properly stored, handled, and applied under normal conditions in accordance with Elastochem's recommendations.

Due to the variability in materials, substrates, and actual site conditions, no warranty regarding merchantability or fitness for a particular purpose, nor any liability arising from any legal relationship, can be inferred from this information, recommendations, or any other advice provided.

Users are not relieved of the responsibility to conduct their own testing of the products for the intended application and purpose. Proprietary rights of third parties must be respected. All orders are accepted subject to our current terms of sale and delivery.

Users should always refer to the most recent version of the product data sheet for the specific product, which can be obtained upon request or downloaded from our website at - www.elastochem.com

Elastochem Specialty Chemicals Inc.
37 Easton Road Brantford, ON N3P 1J4
1-877-787-2436 **www.elastochem.com**

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