

COATING DATA

DESCRIPTION:

A two-component, high solids, chemically cured coal tar modified epoxy. Ruff Stuff 2100 is a unique and outstanding barrier coating formulated for the protection of steel and concrete exposed to aggressive chemical environments. Ruff Stuff 2100 has an extensive history of proven successful use protecting steel and concrete subjected to sanitary sewage and other aggressive chemical agents. Ruff Stuff 2100 meets or exceeds the performance requirements of the Corps of Engineers formulation C-200 and Steel Structures Painting Council formulation SSPC-16.

USE:

Use as a protective barrier coating on steel or concrete exposed to sanitary sewage and other aggressive agents. It also is ideal for protecting steel and concrete immersed in fresh, sea, and chemically contaminated water. Recommended for steel which is cathodically protected by sacrificial anode or impressed current.

PERFORMANCE:

PANEL: Steel.

PREPARATION: SSPC-SP 10 Near White Blast

SYSTEM: Two coats Induron Ruff Stuff 2100 @ 10 mils per coat. 20 mils Total Dry Film Thickness.

TEST	METHOD/CONDITIONS	DURATION	RESULTS
Salt Spray	ASTM D 117	3,600 Hours	No Blisters or Undercutting @ Scribe.
Water Immersion	115°F, 46°C	8,760 Hours	No Effect
25% Sodium Hydroxide	140°F, 60°C	8,760 Hours	No Effect
3% Sulfuric Acid	120°F, 50°C	1,200 Hours	No Effect
5% Sodium Hypochlorite	77°F, 25°C	1,440 Hours	No Effect
5% Sodium Bisulfite	77°F, 25°C	720 Hours	No Effect
Cathodic Disbondment	ASTM G 8-85 Method A	720 Hours	No Disbondment
Direct Impact	ASTM D 2794		120 in./lbs.
Permeability	ASTM E 96		0.13 Perm

LIMITATIONS:

Do not use for immersion in concentrated solutions of mineral acids or organic acids. Not for potable water. Maximum continuous immersion service temperature -120°F (49°C). Maximum continuous non-immersion service temperature -200°F (93°C).

SURFACE PREPARATION:

Steel (Water Immersion)—SSPC-SP 10 Near White Blast and remove all surface contaminants. For other recommended immersion use SSPC-SP 5 White Metal Blast. **Concrete**—New concrete must cure at least 28 days and contain less than 14 percent moisture prior to painting. Remove all surface contaminants. For best results, use SSPC-SP 7 Brush-Off Blast to clean surface.

Ductile Iron— Remove all surface contaminants by abrasive blasting. Do not coat surfaces previously coated with asphalt. **Recoating**—Multicoat systems may require this product to be recoated with itself. This product does not require scarifying the surface prior to being recoated with itself for an indefinite time. Prior to recoating, remove all chalk and/or other surface contaminants.

PRIMER:

Not normally required. If necessary, prime steel with Perma-Clean II Primer, Armorguard P 14 Primer, PE-70 Epoxy Primer or Indurazinc MC-67.

COVERAGE:

Theoretical—1200 ft² per gallon at 1.0 mil dry film thickness.

DRY FILM THICKNESS:

7.0 to 20.0 mils per coat.

WET FILM THICKNESS:

9.0 to 27.0 mils.

APPLICATION DATA

BLEND RATIO:

One part Ruff Stuff 2100 Blending Resin to 9 parts Ruff Stuff 2100 Activator Black by volume. Power agitate until components are thoroughly mixed. Allow mixed components to stand fifteen minutes prior to application.

POT LIFE:

Eight hours at 80°F decreasing with higher temperature.

APPLICATION:

Airless Spray—Use .029 tip; 30 mesh filter; 30:1 Pump ratio at 80-100 psi operating air pressure. **Roll**—Use lambswool cover. Additional coats may be required to achieve desired film thickness. **Brush**—Use natural bristle brush. Additional coats may be required to achieve desired film thickness.

THINNING:

If required, thin up to 10% with K-1066 Reducer. Clean equipment with K-1066 Reducer.

CLIMATE:

Use this product only if the substrate temperature and ambient air temperature is above 40°F and is expected not to decrease for at least two hours after application. Also, the substrate temperature must be 5°F above the dewpoint for a period of at least two hours after application to avoid condensation occurring on wet paint.

DRY TIME:

TO HANDLE - 8 hours at 80°F.

TO RECOAT - 50°F - 72 hours; 75°F - 18 hours; 90°F - 12 hours.

IMMERSION SERVICE—Allow a minimum of 7 days with proper ventilation before immersion.

Note: Lower temperature, higher film build, and/or poor ventilation will retard dry time.

PHYSICAL DATA:

VOLUME SOLIDS: 70% ± 2%

SOLIDS BY WEIGHT: 73% ± 2%

WEIGHT PER GALLON: 8.4 ± .2 lbs per gallon (mixed)

VOLATILE ORGANIC CONTENTS:

Mixed unthinned - < 2.4 lbs/gallon; < 285 grams/liter

Mixed thinned 10% - < 2.8 lbs/gallon; < 340 grams/liter

SAFETY DATA:

See individual product label for safety and health data information. Individual Material Safety Data Sheets are available upon request.