

ACRYLIC/URETHANE**TECHNICAL DATA****SP-10**
**SIERRA PERFORMANCE™
BEYOND™ ACRYLIC ENAMEL**
DESCRIPTION AND USES

Rust-Oleum® Sierra Performance™ Beyond™ Acrylic Enamel is an industrial performance, low VOC, low HAP, very low odor, single component, water-based acrylic urethane.

This coating is designed for use on a primed or painted substrate. It is suitable for both interior and exterior applications. Suitable for doors, cabinets, trim, furniture, equipment, tanks, etc. The very low odor of this coating makes it ideal for use in schools, healthcare facilities, food service areas, office buildings, hotels or in any area where odors are an issue.

Beyond complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

PRODUCTS
1-Gallon 5-Gallon DESCRIPTION (S38 Satin Finish)

| | | |
|--------|---------|------------------------|
| 208040 | 208041 | White Pastel Tint Base |
| 208042 | 208043 | Tint Base |
| 208044 | 365010 | Deep Tint Base |
| 208046 | 365011 | Accent Tint Base |
| 210479 | --- | Clear |
| 208048 | --- | Black |
| 238749 | 243754* | White |

1-Gallon 5-Gallon DESCRIPTION (S39 Gloss Finish)

| | | |
|--------|---------|------------------------|
| 208050 | 208051 | White Pastel Tint Base |
| 208052 | 208053 | Tint Base |
| 208054 | --- | Deep Tint Base |
| 208056 | --- | Accent Tint Base |
| 210491 | 210492* | Clear |
| 208058 | --- | Black |
| 238748 | 243755* | White |
| 238750 | --- | Navy Gray |
| 238751 | --- | Safety Blue |
| 210493 | --- | Safety Red |
| 210495 | --- | Safety Yellow |

*Made-To-Order only. Contact Rust-Oleum Customer Service for details

COMPANION PRODUCTS**RECOMMENDED PRIMER**

For ferrous substrates: Metalmax®
For non-ferrous substrates: Griptec™

PRODUCT APPLICATION**SURFACE PREPARATION**

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Cleaner Degreaser, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

STEEL: Scrape and wire brush or power tool clean to remove loose rust, scale, and deteriorated coatings in accordance to SSPC-SP-2 Hand Tool Cleaning or SSPC-SP-3 Power Tool Cleaning. Steel substrates must be primed with MetalMax Primer. Two coats of primer must be used if the substrate was prepared by abrasive blast cleaning.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Cleaner Degreaser, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. Beyond is compatible with most coatings, but a test patch is suggested.

APPLICATION

Apply only when air and surface temperatures are between 50-100°F (10-38°C) and surface temperature is at least 5°F above dew point.

TINTING

Beyond tint bases can be tinted with COLORTREND® PLUS™ 808, COLORTREND® 888, Rust-Oleum 2030 Water-based Colorants or other high quality water-based or universal colorants. This product contains zero VOCs before tinting. Adding colorants may add VOCs. If used at the recommended levels, the VOC will not exceed 100 g/l.

TINT BASE MAXIMUM COLORANT

| 1-Gallon | 5-Gallon | DESCRIPTION |
|----------|----------|-------------------|
| 2 oz. | 10 oz. | White Pastel Base |
| 4 oz. | 20 oz. | Tint Base |
| 8 oz. | 40 oz. | Deep Tint Base |
| 12 oz. | 60 oz. | Accent Tint Base |



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PRODUCT APPLICATION (cont.)

EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality synthetic bristle brush.
ROLLER: Use a good quality 3/8" synthetic nap roller cover.

AIR-ATOMIZED SPRAY:

| Method | Fluid Tip | Fluid Delivery | Atomization Pressure |
|-------------|-------------|----------------|----------------------|
| Pressure | 0.055-0.070 | 12-16 oz./min | 40-60 psi |
| Siphon | 0.055-0.070 | --- | 40-60 psi |
| HVLP (var.) | 0.043-0.070 | 8-10 oz./min | 10 psi at tip |

AIRLESS SPRAY:

| Fluid Pressure | Fluid Tip | Filter Mesh |
|----------------|-------------|-------------|
| 2000-3000 psi | 0.013-0.017 | 100 |

CAUTION: Protect surrounding surfaces from over spray. Over spray can be wet or dry depending on height of work, weather, environmental conditions and application equipment. Wet over spray can adhere to unwanted surfaces. Dry over spray may be removed by wiping or washing. Always clean dry over spray from hot surfaces before fusing occurs as surface temperatures can be higher than

THINNING

If needed thin with water. Do not exceed 4 fluid ounces per gallon.

CLEAN-UP

Clean up with soap and water and dispose of all waste material in a proper manner and in accordance with local waste regulations. Consult with local environmental regulations for appropriate method of disposal and/or recycling of paint and empty container.

For chemical and corrosion resistance, see Rust-Oleum Industrial Brands Catalog (Form #275585).

PERFORMANCE CHARACTERISTICS

CONICAL FLEXIBILITY

METHOD: ASTM D522
 RESULT: >33%

IMPACT RESISTANCE (Direct)

METHOD: ASTM D2794
 RESULT: >160 lbs.

GLOSS AT 60°

METHOD: ASTM D523
 RESULT: (Gloss) 70-85%
 RESULT: (Satin) 20-30%

PENCIL HARDNESS

METHOD: ASTM D3363
 RESULT: 3B

CROSSHATCH ADHESION (Direct to steel)

METHOD: ASTM D3359
 RESULT: 5B

ACCELERATED WEATHERING (% gloss retention)

METHOD: ASTM D4587, QUV Type A bulb, 450 hours
 RESULT: 93% gloss retention (Gloss Black)

WATER PERMEABILITY

METHOD: ASTM D1653 @ 73°F and 50% RH
 RESULT: 5-6

FLAME SPREAD INDEX

METHOD: ASTM E84-20
 RESULT: Class A

SMOKE SPREAD INDEX

METHOD: ASTM E84-20
 RESULT: Class A

NOTE: The Beyond Clear finish may experience a temporary milky appearance after excessive exposure to water. It will diminish and the coating will recover as it dries out. This will not affect the integrity of the coating or compromise the service life.

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PHYSICAL PROPERTIES

| | | SATIN | GLOSS |
|--|-------------------|--|---|
| Resin Type | | Acrylic Urethane | Acrylic Urethane |
| Pigment Type | | Varies with color | Varies with color |
| Solvents | | Water | Water |
| Weight | Per Gallon | 9.2-10.6 lbs. | 8.7-10.5 lbs. |
| | Per Liter | 1.1-1.3 kg | 1.0-1.3 kg |
| Solids | By Weight | 37-52% | 46-51% |
| | By Volume | 30-36% | 36-38% |
| Volatile Organic Compounds | | <50 g/l** | <50 g/l** |
| Recommended Dry Film Thickness (DFT) Per Coat | | 1-3 mils (25-75 μ) | 1-3 mils (25-75 μ) |
| Wet Film to Achieve DFT | | 3-9 mils (75-225 μ) | 3-8 mils (75-200 μ) |
| Practical Coverage at Recommended DFT (assumes 15% material loss) | | 135-490 sq. ft./gal. (3.3-12.1 m ² /l) | 165-520 sq. ft./gal. (4.1-12.8 m ² /l) |
| Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity | Tack-free | 30 minutes | 30 minutes |
| | Recoat | 1-4 hours | 1-4 hours |
| Dry Heat Resistance | | 200°F (93°C) | 200°F (93°C) |
| | | | |
| Storage | | PROTECT FROM FREEZING. IF PRODUCT SHOULD FREEZE, ALLOW THE MATERIAL TO WARM UP AND REMAIN NORMAL ROOM TEMPERATURE FOR 48 HOURS PRIOR TO USE. MIX BY HAND STIRRING. | DO NOT ALLOW TO FREEZE. |
| Safety Information | | For additional information, see SDS | |

Calculated values are shown and may vary slightly from the actual manufactured material.

** Measured by ASTM D6886. Tinting with some colorants may add minor amounts of VOC.

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



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