



4200 SYSTEM HIGH HEAT COATING

DESCRIPTION AND USES

Modified silicone aluminum and colored finishes for surfaces exposed to temperatures of 300-800°F (149-427°C). Use on properly primed steel surfaces in interior and sheltered exterior exposures. Not for use on galvanized steel.

PRODUCTS

| Quart | 1-Gallon | 2-Gallon | 5-Gallon | Description |
|--------|----------|----------|----------|-------------|
| --- | 4233402 | --- | --- | Green |
| 261968 | 4279402 | --- | 4279300 | Black |
| --- | 4286402 | --- | --- | Gray |
| --- | 4214402 | 4215303 | --- | Aluminum |

COMPANION PRODUCTS

RECOMMENDED PRIMERS

| 1-Gallon | 5-Gallon | Description |
|----------|----------|-------------|
| 4268402 | — | Red Primer |

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Pure Strength® Cleaner/Degreaser item #3599402, commercial detergent or other suitable cleaner. Rinse thoroughly with freshwater and allow to fully dry. All surfaces must be dry at time of application.

STEEL: Apply to a properly primed or previously painted surface.

UNCOATED STEEL: Abrasive blast clean to a minimum SSPC-SP-6 Commercial Grade (NACE 3) to achieve a 1-2 mil surface profile. Abrasive blast cleaned surfaces require two coats of 4268 Red Primer.

If abrasive blast cleaning is not possible, then remove all rust, scale, and deteriorated previous coatings in accordance to either SSPC-SP-2 Hand Tool Cleaning or SSPC-SP-3 Power Tool Cleaning. Steel surfaces must be clean and dry prior to coating application.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. Rust-Oleum High Heat Coatings are compatible with most coatings, but a test patch is suggested.

PRODUCT APPLICATION (cont.)

APPLICATION

Apply only when air and surface temperatures are between 32-125°F (0-52°C) and surface temperature is at least 5°F above dew point. Apply two coats of 4268 Red Primer to abrasive blast cleaned steel.

EQUIPMENT RECOMMENDATIONS

BRUSH: Use good quality natural or synthetic bristle.

ROLLER: Use good quality natural or synthetic cover.

AIR-ATOMIZED SPRAY:

| Method | Fluid Tip | Fluid Delivery | Atomizing Pressure |
|----------|-------------|----------------|--------------------|
| Pressure | 0.055-0.070 | 16 oz./min. | 40-60 psi |
| Siphon | 0.055-0.070 | — | 40-60 psi |
| HVLP | 0.043-0.070 | 8-14 oz./min. | 10 psi at the tip |

AIRLESS SPRAY:

| Fluid Pressure | Fluid Tip | Filter Mesh |
|-----------------|-------------|-------------|
| 2,100-2,800 psi | 0.019-0.023 | 60 |

THINNING

For VOC limits of 500 g./l.: Do not thin.

For VOC limits of 650 g./l. using the following equipment:

BRUSH/ROLLER: Normally not required. Use 5-10%, 140 Thinner if needed (approximately ½ pint per gallon).

AIR-ATOMIZED SPRAY: Use 10-20%, 140 Thinner or as needed (approximately 1½ pints per gallon).

AIRLESS SPRAY: Normally not required. Use 5-10% 140 Thinner if needed (approximately ½ pint per gallon).

NOTE: VOC level of 4215303 is approximately 680 g/l unthinned and as supplied.

CLEAN-UP

140 Thinner.


PHYSICAL PROPERTIES

| | | ALL COLORS | 4215 ALUMINUM | 4268 PRIMER |
|---|------------|---|--|---|
| Resin Type | | Modified Silicone | Modified Silicone | Modified Silicone |
| Pigment Type | | Varies with color | Aluminum Flake | Iron Oxides |
| Solvents | | Aliphatic hydrocarbons | Aliphatic hydrocarbons | Aliphatic hydrocarbons |
| Weight | Per Gallon | 9.8-11.0 lbs. | 9.0 lbs. | 10.9 lbs. |
| | Per Liter | 1.17-1.32 kg | 1.08 kg | 1.31 kg |
| Solids | By Weight | 60.4-67.5% | 48.2% | 64.4% |
| | By Volume | 39.8-44.2% | 27.2% | 39.5% |
| Volatile Organic Compounds | | <475 g/l (3.95 lbs./gal.) | 560 g/l (4.66 lbs./gal.) | <475 g/l (3.95 lbs./gal.) |
| Recommended Dry Film Thickness (DFT) Per Coat | | 1.0-2.0 mils (25-50µ) | 1.0-1.5 mils (25-37.5µ) | 1.0-2.0 mils (25-50µ) |
| Wet Film to Achieve DFT (unthinned material) | | 2.5 mils (62.5µ) | 3.5 mils (87.5µ) | 2.5 mils (62.5µ) |
| Theoretical Coverage at 1 mil DFT (25µ) | | 638-709 sq.ft./gal. (15.7-17.4 m ² /l) | 436 sq.ft./gal. (10.7 m ² /l) | 634 sq.ft./gal. (15.6 m ² /l) |
| Practical Coverage at Recommended DFT (assumes 15% material loss) | | 275-600 sq.ft./gal. (6.8-14.8 m ² /l) | 250-370 sq.ft./gal. (6.2-9.1 m ² /l) | 270-540 sq.ft./gal. (6.6-13.3 m ² /l) |
| Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity | Tack-free | ½-1 hour | ½-1 hour | ½-1 hour |
| | Handle | 1-2 hours | 1-2 hours | 8-24 hours |
| | Recoat | 8-24 hours | 8-24 hours | 8-24 hours |
| Force Cure | | After 24 hours drying, raise the surface temperature to a minimum of 300°F for one hour. | | |
| Dry Heat Resistance | | 300-800°F | 300-800°F | 300-800°F |
| Shelf Life | | 5 years | 5 years | 5 years |
| Safety Information | | COMBUSTIBLE. CONTAINS PETROLEUM DISTILLATES. HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION. | | |

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

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