MantaCryl™ 410

Alpine White Premium Acrylic Roof Coating

DESCRIPTION

MantaCryl™ Alpine White 410 is a premium, high-performance white acrylic roof coating designed for extreme heat and cold climates. This elastomeric coating offers exceptional durability, flexibility and long-term protection for low-pitched roofs. MantaCryl™ 410 meets the requirements of ASTM D6083 Type II (ACE Laboratories report DX01K4A).

Features: Reflects sunlight and UV rays to reduce cooling costs and interior temperatures • Forms a seamless shield that resists cracking, peeling and mildew growth • Withstands extreme heat and cold for year-round performance • Expands and contracts with roof movement • Applied by roller or spray

APPROVED SUBSTRATES

- Built-up roofing (BUR)
- APP and SBS modified bitumen
- Concrete (with primer)
- Aged TPO and aged PVC
- EPDM (with EPDM Wash)
- Metal (with primer)

Primer. Concrete and metal: MantaPrime™ 235 Multipurpose Primer. Aged PVC: MantaPrime™ 230 Bleed Block Primer. Granulated SBS or APP cap sheet: no primer required. EPDM: clean with EPDM Wash before coating.

STORAGE AND SHELF LIFE

Store in a cool, dry place in well-sealed containers. Maximum storage temperature 100.4°F (38°C). Do not allow the product to freeze. Shelf life 18 months in unopened containers. Dispose of contents and containers per local, regional, national and international regulations.

PACKAGING SIZES

5 gal (18.9 L) — 63 lb • 55-gal drum (208.2 L) — 700 lb • 275-gal tote (1,041 L) — 3,400 lb • bulk (tanker) (shipping weights incl. container)

STANDARD COLORS

White, Light Gray, Gray, Tan

APPLICATION INSTRUCTIONS

Preparation: The roof must be dry and clean, with no debris, dirt, oil, loose granules or peeling paint. Pressure washing is highly recommended (use a wide fan tip to avoid damaging the roof). Remove mildew and stains with MantaClean™ 101 (1 part MantaClean™ 101 to 4 parts water) and rinse thoroughly. Clean rusty metal with a wire brush and prime with MantaPrime™ 235 Multipurpose Primer. Seal every leak and crack with MantaHybrid™ 318 Roof Patch, embedded with polyester reinforcing fabric, and allow repairs to cure 24–36 hours before coating. Previously coated surfaces with aluminum, asphalt or tar require a minimum of one summer season cure.

Mixing: Stir thoroughly before application.

Application: Coat every seam and joint first, then allow one hour of drying before the full coats. Apply two uniform coats over the entire roof surface with a 3/4" nap roller or a professional airless sprayer (2,000–3,000 psi, tip .030–.041, material flow 1–3 GPM), avoiding excessive rolling. Two coats are required.

Recoat and cure: Allow 4 hours for recoating and 24–36 hours for complete curing at 70°F and 50% relative humidity. Drying times vary with humidity, film thickness, airflow and temperature.

LIMITATIONS AND PRECAUTIONS

Choose a dry, warm, sunny morning and finish at least 4 hours before sunset. Ideal application temperature 55°F (rising) to 110°F. Rain or dew must stay off the coating for 48–72 hours after application. Not recommended for areas with inadequate drainage (ponding water), over gravel, over walking decks, or on old roofs that are too brittle and dry. Do not allow the product to freeze. For professional use only.

SAFETY AND HANDLING

DANGER. May cause an allergic skin reaction • May cause cancer • Follow the product label and the Safety Data Sheet (mantaroof.com).

CLEAN UP

Wet material: soap and warm water. Dry material: mineral spirits.

Data are typical values, not specifications, and may change without notice. The user is responsible for determining suitability. Check mantaroof.com for the current version. Technical service: +1 844 506 2682.

PHYSICAL PROPERTIES

TYPE	TEST VALUE
Weight per gallon (ASTM D1475)	11.49 lb
Solids by weight	65.41%
Solids by volume (ASTM D2697)	52.83%
VOC	41 g/L (calculated, less water and exempt compounds)
Viscosity (Brookfield, ASTM D2196)	43,291 cP
Elongation (ASTM D2370)	242.1%
Tensile strength (ASTM D2370)	256.2 psi
Elongation, post weathering (1000 h)	118.6%
Solar reflectance (CRRC) initial / 3 yr	0.82 / 0.67
Thermal emittance (CRRC) initial / 3 yr	0.91 / 0.91
SRI initial / 3 yr	103 / 82
CRRC product ID	1458-0003
Permeability (ASTM D1653)	16.28 perms
Adhesion to polyurethane foam (ASTM D903)	3.3 pli
Consistency	Brush, roller or spray
Skin time / recoat (70°F, 50% RH)	4 h
Full cure (70°F, 50% RH)	24–36 h
Flammability	N/A (water-based)
Clean-up	Soap and warm water

APPROVALS AND LISTINGS

APPROVAL	REFERENCE
Miami-Dade County Notice of Acceptance	NOA 25-0930.01
UL 790 Class A fire rating	UL File R41576; listed assemblies in UL Product iQ

Cool Roof Rating Council (CRRC)

PRODUCT ID	COLOR	SOLAR REFLECTANCE	THERMAL EMITTANCE	SRI
1458-0003	White	0.82 initial / 0.67 aged	0.91 / 0.91	103 / 82

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