Technical Data Sheet

PremiumCoat® System
Updated April 29, 2011

DESCRIPTION

PremiumCoat® sustainable roofing and waterproofing system is one of the highest quality roofing and waterproofing systems available. It is recognized by Factory Mutual as a Class 1 roofing system as both a stand alone roof system and as a recover system over a variety of substrates. It is made of only the best raw materials to form a flexible, U.V. resistant electrometric compound and is fully reinforced with a tough nonwoven polyester fabric which has been designed for roofing and flashing applications of all types. **PremiumCoat®** is easy to apply, safe to work with, and requires no special equipment. Properly installed & inspected, the system includes a 10- year warranty in specific roofing applications which can be extended every 10 years under a proper maintenance schedule.

PremiumCoat® System Components-
FoundationCoat
PremiumCoat Fabric (various sizes)
FinishCoat

Accessories Include:
CleanAct Primer
StableRust Primer,
UniBase Primer,
SureBond Primer
HydroCaps, HydroFiber

(Please review individual Technical Data Sheets for the above accessories.)

RECOMMENDED USES

- Metal Roof waterproofing and cooling
- Flat and low-pitched roof waterproofing
- Concrete waterproofing
- Plywood waterproofing
- Deck waterproofing
- Parapet wall waterproofing
- Exterior wall waterproofing
- Flashing of all types

ADVANTAGES & BENEFITS

- Factory Mutual (Class 1 Roofing System) and Dade County approvals.
- Sustainable roofing system that saves expensive removal and disposal cost.

- Ultraviolet and Infrared resistant for added durability.
- High Albedo reduces heat and lowers energy costs.
- Resistant to acid rain and chemical pollutants to protect roof or wall from fallout damage.
- Won't spread flame over non-combustible surfaces.
- Excellent adhesion holds substrate in place even in hurricane force winds.
- Wide range of colors provides beautiful architectural finish.
- Meets V.O.C. emissions regulations to eliminate facility downtime during application.
- Nontoxic formulation is safe to install.
- Easy application and cleanup.
- No special training or equipment required to install.
- 10-year extendable warranty for roofs means system never has to be torn off.
- PremiumCoat**®** has been approved by Factory Mutual as a class I roof system for application over insulation board, new built-up roofs, existing built-up roofs, metal roofs (including historic) and concrete.

PRODUCT CHARACTERISTICS

PremiumCoat Finish Coat & Foundation Coat

Finish: Flat

Standard Colors:

Finish Coat - White, Cotton, Desert Sand, Dove Grey, Battleship Grey, Patina Green, Charleston Green, Brown, Terra Cotta, Tinner's Red, Charcoal. (Customized Tinting available, please contact your Technical Sales Representative.)

Foundation Coat - Patina Green.

Density:	12.1 lb/gal
Volume Solids:	53.25% $\pm$ 2%
Weight Solids:	66.85% + 2%

VOC (calculated):
Foundation Coat =   49 g/L
Finish Coat =   11 g/L

Shelf Life: 18 months if unopened and stored between 40 F & 90 F

Application Temperature:
min. +40 to 105 F (Ambient)

Drying Time (Touch dry): 1-4 hours at 77° F and 40% humidity

Premium Coat Fabric (all sizes)

This material is a non-woven 100% polyester, stitch bonded, heat set fabric with the following characteristics:

Weight-	3 oz / per square yard (106.31 grams / square meter)
Tensile Strength-	Warp 74 lbs. (33.60 kg) per ASTM D 5034 Fill 45 lbs. (20.43 kg)
Elongation @ Break-	Warp 21.3% per ASTM D 5034
	Fill 51.3%
Ball Burst-	111 lbs. (50.39 kg) per ASTM D 3787
Trapezoid-	Warp: 13.5 lbs. (6.13 kg) per ASTM D 117
	Fill: 24.2 lbs. (10.99 kg)
Thickness-	.018 inches (.457 mm) per ASTM D-1777

PremiumCoat System (All Components)

Full Cure: 7 days

Total Cure Thickness: 40-45 mils

Elongation of system:
ASTM D-638 >50% fabric reinforced cured system

Cured Weight: .33 lbs per ft^2 (56.83 oz. per m^2)

Tensile strength of system: ASTM D-412
>2210 PSI (13,789 kPa)

Water vapor permeability: ASTM E-96
3-5 perms

Fungus Resistance: ASTM G-21
No growth supported

Algae Resistance: ASTM G-29
No growth supported

Flammability: ASTM E-108
Class A over noncombustible material

Salt spray test: ASTM B-117
No effects noted

Low temperature flexibility: 180° flexibility; bend at -15

Susceptibility to Leakage   FM 4470 Pass

Severe Hail Test   FM 4470
   No separation or rupture 1-SH

Resistance to Foot Traffic   FM 4470
            No sign of tearing or cracking.

Weathering: ASTM G-26
   No effect after 3,000 hours.

Severe Hail Test: ASTM 4470
   No separation or rupture 1-SH

Wind Uplift Protocol: PA-114
   Over Concrete: 6,098 (psf)
   Light Weight Concrete: 4,621 (psf)
   Polyisocyanurate: 1,189 (psf)
   Smooth Surface BUR: 2,261 (psf)
   Granulated Cap Sheet: 1,753 (psf)

APPROVALS

ASTM D-6083 – Tested and Approved.

California Title 24 - PremiumCoat® System meets all Title 24 requirements.

CRRC (Cool Roof Rating Council)-
   www.coolroofs.org

Model -   **PremiumCoat®** White Finish Coat
   Initial Solar Reflectance -   0.79
   Initial Thermal Emittance -   0.90
   Initial SRI -   99
   Product ID -   0614-0039

Model -   **PremiumCoat®** Cotton Finish Coat
   Initial Solar Reflectance -   .71
   Initial Thermal Emittance -   0.90
   Initial SRI -   87
   Product ID -   0614-0040

Department of Energy, ENERGY STAR®-
PremiumCoat® White FinishCoat & Cotton FinishCoat Approved

Factory Mutual – FM4470 - Class 1 Stand Alone Roofing System**.** Standard for Class 1 Spread of Flame, Windstorm Pressure, Windstorm Pull, Hail Damage, Resistance to Foot Traffic, and Susceptibility to Leakage Classifications. Report J.I. 3000150 various assemblies.

Florida Department of Codes-
   Acceptance # - FL 6623-R1
   www.floridabuilding.org

GSA (U.S. General Services Admin)-
   Contract Number- GS-07F-5988R
   Special Item Number- 563-4

Miami-Dade County- NOA's
   06-0417.06   08-1024.12
   08-1112.12   08-1112.13
   08-1112.14   09-0219.12
   www.miamidade.gov

OTC (Ozone Transport Commission) - All products manufactured by Hydro-Stop meet and exceed the requirements for the OTC.
NOTE: Please contact your Hydro-Stop Technical Sales Representative for details pertaining to approvals and approved substrates.

SURFACE PREPARATION:

As a minimum, clean and prepare surfaces to receive waterproofing by removing all loose and flaking particles, grease and laitance with the use of a stiff bristle push broom and or washing. Care should be taken not to inject water into the substrate during washing. In some cases additional drying time may be required after the cleaning process. Please consult your Hydro-Stop Inc. Technical Sales Representative for additional advice on cleaning various roofing substrates.

PRIMING:

Wood Surfaces: No priming necessary on unpainted wood or plywood. (Do not use treated lumber)

Concrete: Masonry surfaces must be primed with a coat of BarrierGuard (cementious waterproofing sealer). Dry time = 2 hours. All Applications to concrete must have prior Hydro-Stop approval.

Metal: No priming necessary on previously protected or weathered galvanized metal. Unprotected iron and steel must be primed with StableRust primer. Apply to all rusted metal areas at the following coverage rates. Maximum coverage = 200 ft2/ gal (4.755 m2/ liter)

EPDM: Apply CleanAct Primer at the following coverage rates. Maximum coverage = 200 ft^2/ gal (4.755 m^2/ liter) CleanAct should only remain on the EPDM surface 10-30 minutes followed by two more power washes @ 3000 psi. (20680 kPA)

PVC, TPO, and Hypalon: No priming needed.

Rigid Insulation Board: No priming needed.

Smooth BUR: No priming needed.

Modified Bitumen: UniBase Primer recommended for granulated surfaces.

Note: Please check with your Hydro-Stop Technical Sales Representative before applying primers.

APPLICATION

Foundation Coat & Fabric Components - Consist of one coat of FoundationCoat applied to the substrate, Hydro-Stop PremiumCoat Fabric (sizes vary) laid into the wet FoundationCoat, with a second coat of FoundationCoat saturating the fabric from above (wet on wet application). Care should be given to ensure that adjacent runs of fabric are overlapped a minimum of 4 inches (10.16 cm). FoundationCoat coats are applied at a total rate of 25-40 ft^2/gal (.594 - .951 m^2/liter) depending on substrate. FoundationCoat should only be applied with the use of approved roof brushes. Rolling and/or spraying of the FoundationCoat is forbidden.

A.   Roof Perimeter - Using 12 inch (30.48 centimeters) fabric and the Foundation components (described above), waterproof entire roof perimeter. Continue waterproofing up vertical surfaces and onto deck a minimum of 6 inches (15.24 centimeters) in each direction.

B.   Roof Penetrations - Using 12 inch (30.48 centimeters) fabric and the Foundation components (described above), seal items projecting through waterproofing material watertight. Waterproof up penetrations a minimum of 6" (15.24 centimeters).

C.   Roof Field- Using 40 inch (1.016 m) fabric and the Foundation components (as described above), seal the entire roof field. Overlap adjacent runs of fabric 4 inches (10.16 cm) minimum.

Finish Coat Component - Apply 2 coats of FinishCoat at a combined total rate of 70 ft^2/gal (1.664 m^2/liter) over entire roof area. Minimum milage requirements are 11.5 mils (.0115 inches / .292 millimeters) wet and 6.1 mils (.0061 inches / .155 millimeters) dry per coat. Allow to dry between coats. Total FinishCoat dry thickness should be a minimum of 12.2 mils (.0122 inches / .31 millimeters).

Completed PremiumCoat System - System must be installed to a minimum 40 mil (.04 inches / 1.016 millimeters) total cured thickness.

CLEAN UP

Thoroughly rinse application equipment with clean water.

SAFETY AND HANDLING

For specific information regarding safe handling of this material please refer to the Material Safety Data Sheet (MSDS).

ORDERING INFORMATION

The components of the Hydro-Stop PremiumCoat System can be purchased at any official Hydro-Stop distributor. For a distributor in your area, please call us at 1-800-739-5566.