

High Build Quick-Set Roof Coating

For Professional Use Only

DESCRIPTION

- High Build can be applied up to 50 wet mils in one coat.
- Quick-set technology allows the coating to handle rain in as little as 30 minutes after application.
- Sag-resistant technology allows 50 mils to hang on even vertical surfaces.
- Highest quality, plasticizer-free, single component, water-based, 100% acrylic elastomeric coating.
- Versatile - may be spray applied, rolled, or brushed.
- Designed to provide a long-lasting flexible membrane that will retain this flexibility even in the harshest climatic conditions.
- Formulated utilizing specialized pigments and biocides to provide maximum UV resistance and minimize discoloration from dirt accumulation.
- Has excellent adhesion to most surfaces including metal, most single-ply roofs, wood, and concrete.
- Has the unique ability to "breathe," providing a completely watertight membrane while also allowing trapped moisture to escape.

RECOMMENDED USES

Forticoat 55 HB is designed as a protective membrane for most roofing surfaces including galvanized metal, concrete, PVC, Hypalon, EPDM, polyurethane foam, and primed smooth and granulated asphaltic surfaces. Check with your FortiSystems representative for primer recommendations.

Property	Test Method	Result
Volume Solids	ASTM D-1653	55.0 +2%
Weight Solids	ASTM D-1644	65.4 +2%
Tensile Strength	ASTM D-2370	300 +30 PSI
Elongation	ASTM D-2370	220 +20%
Permeability	ASTM D-1653	14 +3
Tear Resistance	ASTM D-624	98 +3 PSI
VOC	EPA Method 24	< 50 g Liter
Low Temperature Flexibility (-15', 1/2 in mandrel, 1000hrs weathering)		Pass
Hardness (Shore A)	ASTM D-2240	50 - 55
Reflectivity	ASTM C-1549	86%
Emittance	ASTM C-1371	.90
SRI	Calculated	107
Viscosity		120 + 10 KU
Density		12.1 lbs per gallon
Flashpoint		None
Shelf Life (when stored between 40°F and 70°F (4°C - 21°C).		24 months (Unopened)
Clean Up		Water

Meets ASTM D6083 requirements. UL Class A fire rated. California Energy Commission Title 24 qualified.

Meets California SCAQMD requirements for VOCs.

COLORS

Standard Colors: White, Gray, and Tan
Custom Colors are available for an additional charge.

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE	SHIPPING CLASS
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55

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SURFACE PREPARATION

General: Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating, and other foreign matter. All wet insulation or foam should be removed and replaced with like materials.

For optimal results power wash all surfaces with a minimum of 2000 psi using a wide fan tip. All necessary precautions should be taken to avoid damage to the roof system. Mildew should be treated with a bleach solution (1 part bleach, 2 parts water) and rinsed thoroughly. Patch and repair cracks or holes with appropriate sealants or caulking materials.

Masonry: Allow fresh masonry to cure a minimum of 30 days, prime with FortiPrime GP.

Metal: Rusty metal must be cleaned with a wire brush and primed with FortiPrime Metal.

EPDM: Prime with FortiPrime Max primer/cleaner, ensure no primer residue remains.

PVC, Hypalon, aged TPO: Prime with FortiPrime SP.

Polyurethane foam: Apply directly (must be coated within 24 hours of installation).

Granulated Asphalt: Base coat with FortiPrime Bleed Block.

Smooth Asphalt: Base coat with FortiPrime Bleed Block SS.

Other: For other substrates, consult your FortiSystems representative.

APPLICATION

This product may be brushed, rolled, or sprayed on a clean, dry surface. Material may be applied in thicknesses of up to 50 wet mils in one application. For details see Equipment Recommendations at the end of this sheet. If sprayed, the material should be at least 75°F.

Application Properties

Yield (1 gal to 100 sq ft)	8.8 dry mils
Dry Time (24 wet mils) (75° F)	90 mins @ 50% humidity
Recoat Window	>6 hrs
Complete Cure	30 days

COVERAGE RATE

Apply OnePass at the rate of up to 50 wet mils in one or more passes. Surface texture and wind will affect applied mil thickness.

ENVIRONMENTAL CONDITIONS

This product cures by water evaporation only. The product must not be applied when the ambient temperature is below 50°F or if there is any possibility it could fall below 32°F within seven days of 50 wet mil application. On marginal days, multiple applications of thin coats can ensure proper drying before heavy rain or overnight freezes.

PONDED WATER

- FortiSystems coatings are not warranted to perform under ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable.
(See the *NRCA Roofing and Waterproofing Manual*).

LIMITATIONS

The surface must be clean and dry. Application is not recommended on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of Forticoat 55 HB requires complete evaporation of water. Cool temperatures and high humidity retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended for use as a thermal barrier.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. Information sources include but are not limited to MSDS and product labels. More resources are available at polyurethane.org, sprayfoam.org, www.forti-systems.com, or by contacting your FortiSystems representative directly.

EQUIPMENT

Minimum requirements:

Brush

- Synthetic filament

Roller

- 1/4" nap roller

Spray

- 30:1 fluid-to-air ratio capable pump
- 2 1/2 gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose rated to 2x maximum pump pressure
- Hose lining should be compatible with coating and required cleanout materials
- Hose lengths: (Largest diameter at pump)
 - 3/8 minimum 6 ft whip
 - 3/8 minimum I.D. up to 75 feet
 - 1/2 minimum I.D. up to 200 feet
 - 3/4 minimum I.D. over 200 feet
- Spray gun: Graco Hydra Mastic or equivalent
- Spray Tip:
 - Reversible self-cleaning type
 - Orifice size of .027 to .039
 - Fan angle of 40° to 50°
- Always use components rated for pump pressures

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