

APPLICATION GUIDE

GENERAL REQUIREMENTS

PREPARATION

Preparation shall include, but not be limited to, structurally sound, solid, clean and dry surfaces. Most coating applications over existing roofs require high pressure power washing.

DRAINAGE

Sufficient drainage shall be required to allow ponds to evaporate in a few days, and to allow coatings proper curing time. Curing time will vary depending on temperature and humidity. Under normal weather conditions, 10 days is needed prior to 24-hour ponding. No ponding is allowed for the first 48 hours after application. Ponds should be no greater than ½" deep. If more than this, the roof should be altered or drains installed. Ponding will require an additional two gallons per square of *FLEX® WHITE*. (See Warranty.)

FLEX®-H: May be substituted for *FLEX® WHITE* as a reflective coating. It is not recommended for ponding areas or freezing temperatures. *FLEX®-H* does not carry the same warranty as *FLEX® WHITE*.

COVERAGE OF *FLEX® WHITE* AS A TOP COAT

Do not apply *FLEX® WHITE* too thin; it is not a paint. Paint applied as thick as this coating would chip and peel. The thickness is important for increasing the reradiation potential. (See Chart: "Suggested Gallons Per 100 Sq. Ft. for *FLEX® WHITE* Top Coats".) Use the recommended coverage and apply at least two coats. If you have not used up the recommended amount, apply the remainder as a third coat. All coverage listed are two to three coats at one gallon per 100 sq. ft. per coat. One square (1 sq.) equals 100 square feet. One gallon *FLEX® WHITE* per square equals 10 dry mils.

Recommendation: Apply 2 gallons per 100 sq. ft.

FLEX® BLACK as a primer. No *FLEX® BLACK* is required or recommended on metal or Polyurethane Foam roofs.

POLYESTER FABRIC REINFORCEMENTS

Apply *FLEX®* Coatings over all surfaces prior to applying polyester over any surface, including other polyester. Proper overlap of fabrics is 4" on butt joints and 2" on the lap joints. Polyester must be applied wrinkle free.

VENTS / MOISTURE UNDERNEATH SURFACE

Moisture pressure relief roofing vents shall be installed where specified or required. (See architectural details.) If moisture is present below the existing roofing, remove existing roofing in wet areas, allow to dry thoroughly, apply *FLEX® PRESERVZIT* Wood Preservative according to specifications, and re-roof. Replace all damaged sheeting and wet insulation. (An electron moisture detection machine should be used.)
(See "Patching" in the application guide.)

EXPANSION JOINTS

Expansion joints shall be installed where specified or required. (See architectural details.)

FLASHINGS

Flashings shall be installed where specified or required. (See architectural details.)

WEATHER AND CURING CONDITIONS

FLEX® WHITE top coat and *FLEX® BLACK* (#11) Emulsion shall be installed at 50°F or above. Application shall not commence during inclement weather, when precipitation appears imminent or freezing may occur. Even after dry to touch (two to four hours), the *FLEX® WHITE* top coat continues to cure for up to ten days. Should ponding occur during this period, blow or sweep water from the applied surface so that curing can continue.

SERVICE WALKWAY INSTALLATION

Service walkway installation are recommended where frequent foot traffic is required of workers. Service walkways shall be applied after the *FLEX® WHITE ROOFING SYSTEM* has been completed. Service walkways shall be installed for maintenance or normal use by applying four additional coats @ four gallons per square of *FLEX® DECK*, or *AQUATHANE* embedding polyester fabric (scrim) into it. Fabric shall be smoothed with a brush or roller in such a manner that it is relaxed and free of wrinkles. Fabric shall be coated with sanded *FLEX® DECK* or *AQUATHANE*. To assure coverage, penetration and complete filling, the coating shall extend at least three inches beyond fabric edge.

FLEX® DECK or *AQUATHANE* may be tinted off color to more clearly define the walkway area. No traffic shall be allowed in the area for a minimum of 24 hours after installation or until coating has cured thoroughly.

SAFETY REQUIREMENTS

FLEX® WHITE that has become wet from rain, dew or other causes, is extremely slippery. Care should be exercised when walking on the coating. (See service walkway installation above.)

LIMITATIONS

Coating applications shall not commence during inclement weather, when precipitation appears imminent or when freezing may occur within 24 hours. *(See *FLEX® AQUATHANE* for bad weather instructions.) Coatings shall not be applied to wet, dirty, or structurally unsound substrates. Material shall be stored in insulated and/or heated areas

during freezing temperatures. *DO NOT DILUTE FLEX® WHITE. This will void all warranties.*

MAINTENANCE

1. Check and remove debris from drains each six months. Inspect for accidental damage.
2. Check *FLEX® WHITE* for wear after two years and annually thereafter. As long as the white top coat is maintained, the roof should last INDEFINITELY. Resurface with one or two coats of *FLEX® WHITE* every five to ten years.
3. Repair cuts and punctures by first leveling the indentation using *FLEX® CAULK* or *FLEX® AQUATHANE*. Apply *FLEX® BLACK*, embedding polyester cloth into it then apply two to three coats of *FLEX® WHITE*. After drying, apply one additional coat. (See "Patching" in the installation guide.)
4. Cleaning by high pressure water recommended, as dirt accumulates.

WIND UPLIFT

Resistance of the entire roof structures failure by wind uplift vacuum depends on the deck, insulation and felts fastening methods. Data on these items are obtainable from the manufacturer or the Factory Mutual Guide. Generally, when all of these components are installed to meet or exceed their own wind uplift ratings, *FLEX® WHITE* membrane, being solidly adhered to its base felt, is not a limitation.

APPLICATION TECHNIQUES AND ADVICE

(See *AQUATHANE* installation guide.)

**AQUATHANE* can be applied before and during incimate weather.