Technical Data Sheet

TECHGUARD CEMENTITIOUS

Overview

TechGuard Cementitous Topped Urethane P 2.8 is a two part system designed for roofing applications where the compressive strength (54 psi) provides a greater resistance to foam fracture than is offered by foams of lower density. The foam is coated with EC-100, usually in two to three coats at a rate of 1 ¼ gallons per 100 square feet per coat. A crushed #6 limestone is applied to all flat areas in the wet final acrylic elastomer coating at approximately 60 lbs. per 100 square feet. Finally, ana acrylic modified cementitious top coat is spray applied in two coats achieving a total of 7 to 8 gallons per 100 square feet to all flat areas and allowed to dry.

Properties	Test Method	Typical Value
Nominal Density (in place)	ASTM D1622	3.2 lbs. per cubic foot
Nominal Density (Core)	ASTM D1622	2.8 lbs. per cubic foot
Compressive Strength	ASTM D1621	54 psi
K Factor	ASTM C518	0.15
Closed Cell Content	ASTM D2856	95%
Smoke Developed (2" cement coard)	ASTM E84	> 500
Moisture Vapor Transmission	ASTM C355	1.5 perms/inch
Maximum Service Temperature		180°F
Flame Spread (2" Cement Board)	ASTM E84	< 35
Reflectance	ASTM E-424-71	.86
UV Resistance	ASTM D-822	2,000 hr./no effect
High Temp. Stability	ASTM D-794	No Effect
Solar Reflectance	ASHRAE Standard	.75
Solar Absorption	ASHRAE Standard	.25

Installation

-Power broom and vacuum all loose gravel, dirt and other foreign objects from the roof's surface.

-Examine roof for areas where cold applied materials may have been used. Remove these materials from any areas that have been applied in excessive amount or still remain tacky.

-Cut out all blistered areas, de-laminated areas and damaged or wet roof insulation prior to the application of new materials.

-Metal surfaces to be spray foamed shall be of dust, loose scale, rust, dirt, grease, oil or any other contaminant.

-Prime Roof surfaces, if appropriate, with Pro-Tech Acrylic Prime roof primer at the rate of ¼ to 1/3 gallons per 100 square feet.

-Mask all areas on the immediate roof and all adjacent areas that are intended to remain uncoated. Mask all edges to ensure straight and neat edges and terminations.

-If necessary, air conditioners and other roof mounted mechanical equipment shall be raised to access and thoroughly foam and coat the roof underneath. A 24" minimum access is required to correctly address these areas. Any deterioration of sleepers, frames, seals, gaskets or pans will require replacement.

-For application details, see specific Guide Specifications.

Ratings:

As to an external fire; exposure only. 13 PK

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