

MonoSET-100 TC



Thin Set Polymer Concrete

MonoSET-100 TC is a three-part urethane concrete roller applied flooring system. TC is a medium duty pigmented coating typically applied at 16 mils depending on the design requirements. It is designed to be used as a primer, mid-coat, topcoat or seal coat for pigmented broadcast systems.

Recommended For

- Chemical Processing Plant
- Food and Beverage Industry
- Coolers
- Pharmaceutical Plants
- Waste Water Treatment
- Wash Bay
- Bottling Areas
- Sanitize/Wash Areas
- Commercial Kitchens
- Mechanical Room

Moisture Testing

MonoSET-100 TC has moisture vapor property up to 15lb/1,000 sq.ft./24hours. It is the responsibility of the owner or the owner's representatives to examine the substrate for contaminants and moisture and the condition of the concrete slab.

Please contact Surface Engineered Technologies (SET) technical services team for additional guidelines concerning these parameters.

Limitations

Bleaching and staining is possible in pigmented system due to certain chemicals. This will not affect the performance.

This product is not light stable. Sunlight and metal halide lighting will cause yellowing. This will not affect the performance.

A batch-to-batch color variation may occur. Box same lot number together for color consistency. This will not affect performance.

Benefits

- Low Emitting Materials, Paint & Coating
- Rapidly Renewable Materials
- Contains 20% Plant-Based
- Meets USDA, FDA and CFIA Standards
- Self-priming for Superior Adhesion
- Superior Impact Resistant
- Does Not Promote Bacterial Growth
- Extreme Thermal Stability: -100 to +240°F
- High Tolerance to Moisture Vapor
- Green Concrete Application

Technical Properties

Physical Property	Data
Percentage solids by weight	100%
Mix Ratio (by volume)	3 Component Kit
Viscosity at 70°F	Not Applicable
Pot Life at 70°F	15-20 minutes
Dry Time at 70°F	6-8 hours
Working Time at 70°F	25 minutes
Spread Rate	125 sqft/kit @ 16 mils
Volatile Organic Compound (VOC)	Nil

Mechanical Property	Test Method	Result
Hardness (Shore D)	ASTM D-2240	80D
Compressive Strength	ASTM C-579	9000psi
Coefficient of Linear Thermal Expansion	ASTM C-531	1.71 x 10 ⁻⁵ in/in/°F
Tensile Strength	ASTM C-307	1200psi
Flexural Strength	ASTM C-580	2000psi
Adhesion to Concrete	ASTM D-7234	>400psi
Impact Resistance	ASTM D-2794	>160 in/lb
Water Absorption	ASTM C-413	<0.10%
Flame Spread/NFPA 100	ASTM D-635	Self-Extinguishing
Abrasion Resistance CS 17 wheel, 1000gram load, 1000 cycles	ASTM D-4060	70 mg loss
Coefficient of Friction (James Friction Tester)	ASTM D-2047	Meet ADA >0.8
Thermal Stability / Heat Resistance	MIL-D-3134J Section 4.6.3	No changes in the matrix of the system

SURFACE ENGINEERED TECHNOLOGIES
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