

TrafficGuard™ PSM

HIGHLY RESILIENT PROTECTIVE STRUCTURAL MEMBRANE



TECHNICAL DATA SHEET

FOR PROFESSIONAL CONTRACTOR USE ONLY

DESCRIPTION

TrafficGuard™ PSM is a 100% solids, VOC-free, polyurea Protective Structural Membrane formulated to protect concrete and steel structures under the harshest of weathering conditions. TrafficGuard™ PSM has been lab tested and field proven in industrial infrastructures, waterproofing containment areas, parking garages, surge water walls, water reservoirs, rail cars, underground piping, pipelines, concrete bridge decks, tunnels and corrosive marine environments.

FEATURES

- ZERO VOC's
- User Friendly - 1:1 mix ratio.
- No mil thickness limitation
- Insensitive to ambient temperatures as low as -20°F (-28.9°C) with a gel time of 30 seconds.
- Tensile and elongation strength that resists extreme freeze/thaw cycles from -40°F to 250°F (-40°C to 121°C)
- Preserves Structures with military tested resistance to all chemicals included in the 21-day immersion ASTM D3912 test chart.

SURFACE PREPARATION

- Concrete and Timber Bridge Decks
- Bridge Structures
- Asphalt Surfaces
- Tunnels
- Pipelines
- Underground piping and culverts
- Marine structures
- Parking Structures
- Surge Water Walls

PACKAGING

Side A and B are available in standard package sizes of 5-gallon pails, 50-gallon drums, 250-gallon totes.

SURFACE PREPARATION AND APPLICATION

Concrete: Surface must be fully cured and free of all cure and seal coatings, oil, dirt, and loose debris prior to installation. Primer material may be necessary on aged or excessively damaged concrete.

Steel/Metal: Surface must be clean and structurally sound. Sand blast surface to a minimum 3 mil profile. Primer material may be necessary for worn or excessively damaged surfaces.

TrafficGuard™ PSM is a two component 100% solids formulation which must be applied using a 2-component 1500-1800 psi high-pressure liquid pumping heated spray machine. Material and line temperatures may vary but targeted at 140°F (60°C). Thorough

mixing of the B-Side component is required during application. Proper safety wear is mandatory. Surface application temperature ranges from 0°F to 150°F (-17.7°C to 65.5°C) with dry surface. Spray cure time 2-5 seconds. Functional material operation temperature ranges from -40°F to 250°F (-40°C to 121°C). Final top-coat appearance is glossy and slick to the touch. This material will not flow-out or lay-down. Spray coverage at 16 mils is 100 sqft/mixed gal thickness.

MIXING

Machine mix with a plural component 1:1 high pressure heated system. For information on specific chemicals and exposure conditions, contact a ChemCo Systems, Inc., technical representative.

TECHNICAL DATA¹

PHYSICAL PROPERTIES ²	TEST METHOD	VALUE
Percent Solids		100%
Mix Ratio: Parts By Volume (Part A:Part B)		1:1
Tear Strength	ASTM D624	500 lbs/linear in. (8928.5 kg/m)
Impact	ASTM D2794	> 300 psi (100% concrete failure)
Adhesion to Concrete	ASTM D4541	> 1000 psi
Abrasion - Taber	ASTM 4060	<22 mg / 1000 cycles
Tensile Strength	ASTM D412	3411 psi (23.52 Mpa)
Hardness, Shore D	ASTM D2240	55
Elongation	ASTM D638	> 450%
Gel Time		30 seconds

CLEAN UP

Excess mixed product is best removed from the work area and tools before it hardens. The use of rags and solvents such as acetone or heavy-duty detergents facilitates cleaning. Cured product may be removed from tools by soaking in an epoxy stripper.





Limited Warranty: Please read all information in the General Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. These products are for professional use only and preferably applied by professionals who have prior experience with ChemCo Systems materials or have undergone training in application of ChemCo Systems materials. Published technical data and instructions are subject to change without notice. Contact your local ChemCo Systems representative or visit our website for current technical data, instructions, and project specific recommendations.

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