

TECHNICAL DATA SHEET FOR PROFESSIONAL CONTRACT 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 to be applied by professionals who have prior experience and training with the use and application of our materials, and who are fully aware of all Federal, State and local rules, regulations, and code requirements for storage, transportation, handling, installation, and application. Published technical data and instructions are subject to change without notice. Contact your local representative or visit our website for current technical data, SDS, instructions, and project specific recommendations. We warrant our products to be free of manufacturing defects and that they will meet our current published physical properties within the shelf life of products.

Our sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. We will not be liable for damages of any sort, including remote or consequential or punitive damages resulting from any claimed breach of any warranty whether expressed or implied. We will also not be responsible for use of this product in a manner to infringe on any patent held by others. No warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, adhesion, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. We reserve the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator. Your sole and exclusive remedy against us shall be limited to the paid cost of the materials sufficient to replace any affected areas where product failure has occurred. The cost of replacement materials shall, in no event, exceed the value of the original purchase price of the products, subject to equitable reductions for time of use.

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