

# TNEMEGUARD SERIES 154

## PRODUCT PROFILE

**GENERIC DESCRIPTION** Mastic Waterborne Acrylic

**COMMON USAGE** Series 154 is a durable, single-component, water-based elastomeric coating that forms a waterproof film over horizontal or vertical concrete surfaces as well as various types of wallboard, wood and tile. It is an excellent choice for areas that receive light to moderate traffic including balconies, walkways, pedestrian bridges, mechanical equipment rooms and other surfaces such as concrete decks that may require protection from weather or water intrusion. Versatile application characteristics allow Series 154 to be applied neat, as a broadcast system, or mixed with aggregate and either applied as slurry or used as a surfacer or filler. Series 154 can also be reinforced using woven or octagonal mesh inlays where crack-bridging or extra durability is needed.

**COLORS** Refer to Tnemec Color Guide.

**FINISH** Matte

## COATING SYSTEM

**SURFACER/FILLER/PATCHER** Series 130, 154 (extended with aggregate), 215, 217, N218, 1254. **Note:** When extending Series 154 as a surfacer mix three (3) parts 30/50 mesh sand with one (1) part Series 154 liquid by volume. For hairline cracks mix two (2) parts 30/50 mesh sand with one (1) part Series 154 liquid by volume.

**PRIMERS** **Concrete:** Self-priming (when thinned between 20% to 25%) or Series 151, 1224. **Note:** Series 151 **must** be used as a primer before applying Series 154 over existing coatings or tile.

**CMU:** Self-priming or Series 130, 1254.

**Wallboard:** Self-priming (when thinned between 20% to 25%) or Series 130, 151, 1224. **Note:** Series 151 **must** be used as a primer before applying Series 154 over existing coatings.

**INTERMEDIATE** Series 154 (neat), 154 (slurry), 971. **Note:** When using Series 154 as a slurry, mix one (1) part 30/50 mesh sand with one (1) part Series 154 liquids by volume (must be thinned 5% with water).

**TOPCOATS** Series 156, 157, 158, 180, 181, 248, 297, 1026, 1028, 1029, 1080, 1081.

## SURFACE PREPARATION

**CONCRETE** Must be clean, dry and free of oil, grease, loosely adhered existing paint and all other contaminants. Prepare concrete by sanding, light grinding or by pressurized water cleaning between 4,000 and 5,000 psi using a "zero" degree oscillating tip (SSPC SP-13).

**CRACKS** Fill hairline cracks less than 1/64 inch (0.4 mm) wide by brushing Series 154 into them prior to applying Series 154 over the entire area to be coated. For cracks wider than 1/64 inch (.4 mm) and/or moving cracks, gaps and expansion joints use Series 211 reinforcing mesh. **Note:** Use Series 154 to embed Tnemec-Tape prior to topcoating with 154.

**CMU** Allow mortar to cure for 14 days. Level protrusions and mortar splatter. Surfaces must be clean, dry, sound and free of all contaminants. For pinhole free surface, use recommended block filler.

**PAINTED SURFACES** Apply test patch to check adhesion. Remove loose paint and spot prime.

**ALL SURFACES** Must be clean, dry and free of oil, grease, form release agents and other contaminants.

## TECHNICAL DATA

**VOLUME SOLIDS** 52% ± 2%

**RECOMMENDED DFT** 10.0 to 14.0 mils (250 to 355 microns) without reinforcement fabric, or aggregate.

### CURING TIME

Temperature	To Touch	To Handle	To Topcoat
105°F (41°C)	30 minutes	45-60 minutes	4-12 hours
95°F (35°C)	45 minutes	1-1.5 hours	4-12 hours
85°F (29°C)	1 hour	1.5-2 hours	8-16 hours
75°F (24°C)	1.5 hours	2-3 hours	8-16 hours
65°F (18°C)	2 hours	3-4 hours	24-32 hours
55°F (13°C)	3 hours	4-5 hours	32-40 hours

**VOLATILE ORGANIC COMPOUNDS** 0.03 lbs/gallon (3.0 grams/litre)

**HAPS** 0.00 lbs/gallon solids

**THEORETICAL COVERAGE** 834 mil sq ft/gal (20.4 m<sup>2</sup>/L at 25 microns). See APPLICATION for coverage rates. †

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## PACKAGING

5 gallon (18.9L) pails and 1 gallon (3.79L) cans.

**Broadcast Application:** Purchase clean, dry, bagged, 30/50 mesh flint shot, silica sand or approved equal.

**Surfacer, Broadcast and Slurry Applications:** For surface, broadcast and slurry applications, purchase clean, dry, bagged, 30/50 mesh flint shot, silica sand or approved equal.

**Reinforcing Meshes:** Ordered separately, please reference the table below for additional product information.

Product Number	Description	Size
S211-WV42300-UT	Woven Mesh †	42" W x 300' L
S211-WV30300-UT	Woven Mesh †	30" W x 300' L
S211-WV06300-UT	Woven Mesh †	6" W x 300' L
S211-OC60375-UT	Octagonal Mesh †	60" W x 375' L
S211-OC30375-UT	Octagonal Mesh †	30" W x 375' L
S211-OC06375-UT	Octagonal Mesh †	6" W x 375' L

† Available in full rolls only.

## NET WEIGHT PER GALLON

12.0 ± 0.25 lbs (5.44 ± 0.11 kg) (mixed)

## STORAGE TEMPERATURE

Minimum 55°F (13°C) Maximum 110°F (43°C)

## TEMPERATURE RESISTANCE

(Dry) Continuous 170°F (77°C) Intermittent 200°F (93°C)

## SHELF LIFE

12 months at recommended storage temperatures.

## FLASH POINT - SETA

N/A

## HEALTH &amp; SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product.

**Keep out of the reach of children.**

## APPLICATION

## COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	12.0 (305)	23.0 (585)	70 (6.5)
Minimum	10.0 (255)	20.0 (510)	80 (7.4)
Maximum	14.0 (355)	27.0 (685)	60 (5.56)

Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance.

## MIXING

Stir thoroughly, making sure no pigment remains on the bottom of the pail.

## THINNING

May be thinned up to 20-25% per gallon with clean, tap water when used as a primer. May be thinned up to 5% for all other applications. **Caution: Thinning with high temperature water will significantly reduce the pot life. For best results, water temperature should not exceed 80°F (27°C).**

## APPLICATION

**Primer:** 10.0-15.0 wet mils or 115-160 sq ft/gal (2.8-3.9 m²).

**Vertical Applications:** May require two coats at 7.0-10.0 wet mils per coat.

**Broadcast Applications:** Series 154 is spread at a rate of 60 to 80 sq ft (5.5 to 7.4 m²) per gallon or approximately 20 to 27 mils wet (10 to 14 mils dry). The aggregate is then broadcast to refusal into the liquid at approximately ½ pound per sq. ft. until a uniformly dry appearance is obtained.

**Slurry Application:** Series 154 mixed one (1) part 30/50 mesh sand with one (1) part Series 154 liquids by volume (thinned 5-10%) is spread at a rate of 60 to 80 sq ft per gallon (5.5 to 7.4 m²) or approximately 20 to 27 mils wet (10 to 14 mils dry).

**Reinforcement - Octagonal Mesh:** Lay reinforcement mesh on all surfaces to a pre primed substrate. Once mesh is placed apply neat or slurry coat of Series 154 by brush and roller, forcing the 154 through the mesh to saturate and encapsulate the mesh. Series 154 neat at approximately 20-27 wet mils, slurry at approximately 20-27 wet mils.

**Reinforcement - Woven Mesh:** While the basecoat is still wet, lay and press the reinforcement mesh into the surface. Once mat is placed, immediately saturate mat with 16 - 18 wet mils of Series 154 saturant coat until reinforcement fabric is completely wet out. **Caution: When applied vertically the saturant coat should be applied at a thickness sufficient to only wet-out the reinforcement fabric. Any attempt to build a film on top of the mat may result in sags and runs.**

## APPLICATION EQUIPMENT

## Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.021"-0.025" (533 to 635 microns)	2500-3000 psi (172 to 206 bar)	3/8" (9.5 mm)	30 mesh (600 microns)

**Roller:** Use a 3/8" to 1/2" (9.5 mm to 38 mm) synthetic woven nap roller cover. Use longer nap for rough or porous surfaces.

**Brush:** Use a high quality nylon or synthetic bristle brush.

**Broadcast:** Roller, Squeegee, Trowel.

## SURFACE TEMPERATURE

Minimum 45°F (7°C) Maximum 120°F (49°C)

## CLEANUP

Clean all equipment immediately after use with water.

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