



Tennant MMA™ | METHYL METHACRYLATE

Save time and money by refreshing your floor's appearance with minimal interruption

- **PRODUCTIVE** – Resume operations up to 10 times faster than traditional coating systems
- **FLEXIBLE** – Increase operational efficiency by installing coatings in temperatures down to -20°F
- **VOC COMPLIANT** – Protect the environment and meet the strictest VOC regulations in North America
- **SUSTAINABLE** – Deliver superior cleaning results with ec-H2O™ technology

TENNANT COATINGS

For First Impressions That Last™

Chemical Resistance Properties

		1 day	7 day
Acids, Inorganic	30% Chromic Acid	G	F
	10% Hydrochloric Acid	E	E
	30% Hydrochloric Acid (Muriatic)	E	E
	10% Nitric Acid	E	E
	30% Nitric Acid	G	F
	40% Phosphoric Acid	E	E
	37% Sulfuric Acid (Battery Acid)	E	E
Acids, Organic	10% Acetic Acid	E	E
	30% Acetic Acid	G	F
	30% Citric Acid	E	E
	10% Formic Acid	E	E
	30% Formic Acid	F	P
	30% Lactic Acid	E	E
	10% Oxalic Acid	E	E
Alkalies	10% Ammonium Hydroxide	E	E
	50% Sodium Hydroxide	E	E
	50% Potassium Hydroxide	E	E
Solvents (Alcohols)	30% Ethanol	E	E
	Isopropyl Alcohol	F	P
Solvents (Aliphatic)	n-Heptane	E	E
	Turpentine	E	E
Solvents (Aromatic)	Benzene	F	P
	Phenols	G	G
	Styrene	G	F
	Toluene	F	P
	Xylene	F	P
Solvents (Chlorinated)	Methylene Chloride	P	P
	Perchloroethylene	G	G
Solvents (Ketones & Esters)	Acetone	P	P
	Methyl Ethyl Ketone (MEK)	P	P
	n-Butyl Acetate	P	P
		P	P
Petrochemicals	Crude Oil	E	E
	Diesel Fuel	E	E
	Gasoline	E	E
	Kerosene	E	E
	Mineral Oil	E	E
	Paraffin Oil	E	E
	White Spirits	E	E
Miscellaneous Chemicals	Animal Fats	E	E
	Brake Fluid	P	P
	Bleach	E	E
	Fruit Juice	E	E
	Motor Oil (SAE30)	E	E
	Mustard	E	E
	Ketchup	E	E
	Salt Water (Brine)	E	E
	Skydrol® 500B	P	P
	1% Tide® Laundry Soap	E	E
	10% Trisodium Phosphate	E	E
	Vegetable Oils	E	E
	Wine	E	G

Based on 1-day and 7-day spot testing on concrete. Coating cured 1 weeks prior to testing.

Skydrol® is a registered trademark of Solutia, Inc. Tide® is a registered trademark of Procter and Gamble.

E = Excellent (No Adverse Effect) F = Fair (Moderate Adverse Effect)
G = Good (Limited Adverse Effect) P = Poor (Unsatisfactory)

Note: Reduced chemical resistance and increased staining is possible in pigmented versions of this system.



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Tennant MMA™ Snapshot

APPEARANCE:	From textured to smooth
COLOR:	Standard and custom colors or blends available
VOC COMPLIANCE:	Low VOC 0 g/L
CURE TIME:	1 hour per coat at 70°F
APPLICATIONS:	30 to 250 mil systems
INSTALLATION:	Professional application required

Standard Colors — Colors are close approximations; please contact Tennant for product samples.



Physical/Performance Properties

MATERIAL PROPERTIES (LIQUID)		Body Coat Results	Topcoat Clear Results	Topcoat Color Results
Property	Test Method			
Flash Point, °F (°C) Seta Closed Cup	ASTM D3278	Flammable Liquid	Flammable Liquid	Flammable Liquid
Percent Solids, by weight	ASTM D2369	100	100	100
Density, lb/gal (kg/L)	ASTM D1475	8.17 (0.98)	8.09-8.42 (0.97-1.01)	8.40-8.60 (1.01-1.03)
Resin Viscosity, cps (Brookfield)	ASTM D2393	300-350	80-90	200-300
Volatile Organic Compound - VOC lb/gal (g/L)	ASTM D3960	0 (0)	0 (0)	0 (0)
CURED COATING PROPERTIES (DRY FILM)		Body Coat Results	Topcoat Clear Results	Topcoat Color Results
Property	Test Method			
Water Absorption	ASTM D570	<0.1%	<0.1%	<0.1%
Compressive Strength, psi (MPa)	ASTM C109	6500 (45)	7500 (52)	7500 (52)
Tensile Strength, psi (MPa)	ASTM C307	2000 (14)	2100 (14)	2100 (14)
Flexural Strength, psi (MPa)	ASTM C348	2800 (19)	3100 (21)	3100 (21)
Hardness, Shore D	ASTM D2240	62	—	—
Elongation at Break	ASTM D628	35%	—	—
Coefficient Thermal Expansion VDE 0304, °F (°C)		3.5 ¹⁰⁻⁵ (6.3 ¹⁰⁻⁵)	—	—
Vicat Temperature DIN 53460, °F (°C)		140 (60)	—	—
COATING CHARACTERISTICS		Body Coat Results	Topcoat Clear Results	Topcoat Color Results
Property				
Application Temperature		32°F (0°C) to 95°F (35°C)	-20°F (-28.9°C) to 95°F (35°C)	-20°F (-28.9°C) to 95°F (35°C)
Pot Life		10-20 minutes	10-20 minutes	10-40 minutes
Cure Time		1-2 hours	20-40 minutes	20-60 minutes
APPLICATION CHARACTERISTICS		Body Coat Results	Topcoat Clear Results	Topcoat Color Results
Property				
Coverage Thickness, 2.5 gal (9.45 L)	3/16" (4.8 mm)	1/8" (3.2 mm)		
Coverage Rate, ft²/unit (m²/unit)	32 (2.97)	40 (3.72)	—	—
Coverage Rate, ft²/gal (m²/L)	—	—	100 (2.5)	100 (2.5)
Application Thickness, wet mils (microns)	125 (3175)	188 (4775)	16 (406.4)	16 (406.4)

Results are based on conditions at 75°F (24°C).

A floor-care system of high-performing Tennant coatings, sweepers, and scrubbers will maximize your floor's natural life, minimize your maintenance costs and create a world-class impression.