



CREATING A CLEANER, SAFER, HEALTHIER WORLD.

COATINGS



## Eco-SDS™

DURABLE CHEMICAL-RESISTANT URETHANE COATING THAT REDUCES THE EFFECTS OF STATIC ELECTRICITY

- **ELECTROSTATIC DISCHARGE CONTROL** – Meets ANSI/ESD S20.20-2007 for resistance  $<1 \times 10^9$  ohms and  $<100$  volts Body Voltage Generation
- **LEED®** – LEED green building certification program credits available:
  - Indoor Environmental Quality
  - 4.2 Low-Emitting Materials, Paint and Coatings
- **DURABLE** – Eco-SDS lasts as long as standard urethanes; up to two times as long as standard epoxies. It has a satin sheen which maintains a fresh look even in traffic lanes.
- **IMPROVED APPEARANCE** – Light stability over the expected life of coating



T20

Tennant Company is a world leader in indoor and outdoor environmental cleaning solutions and floor and wall coatings.

## CHEMICAL RESISTANCE PROPERTIES

		1 day	7 days
Acids, Inorganic	10% Hydrochloric Acid	E	E
	30% Hydrochloric Acid (Muriatic)	E	E
	10% Nitric Acid	E	E
	50% Phosphoric Acid	E	G
	37% Sulfuric Acid (Battery Acid)	E	E
Acids, Organic	10% Acetic Acid	E	E
	10% Citric Acid	E	E
	Oleic Acid	E	E
Alkalies	10% Ammonium Hydroxide	E	E
	50% Sodium Hydroxide	E	E
Solvents (Alcohols)	Ethylene Glycol (Antifreeze)	E	E
	Isopropyl Alcohol	E	E
	Methanol	E	E
Solvents (Aliphatic)	d-Limonene	E	E
	Jet Fuel (JP-4)	E	E
	Gasoline	E	E
	Mineral Spirits	E	E
Solvents (Aromatic)	Xylene	E	E
Solvents (Chlorinated)	Methylene Chloride	P	P
Solvents (Ketones & Esters)	Methyl Ethyl Ketone (MEK)	E	E
	Propylene Glycol Methyl Ether Acetate (PMA)	E	E
Miscellaneous Chemicals	20% Ammonium Nitrate	E	E
	Brake Fluid	E	E
	Bleach	E	E
	Motor Oil (SAE30)	E	E
	Skydrol® 500B	E	E
	Skydrol® LD4	E	E
	20% Sodium Chloride	E	E
	1% Tide® Laundry Soap	E	E
	10% Trisodium Phosphate	E	E
	Coffee	E	E
	Coke®	E	E
	Ketchup	E	E
	Mustard	G*	G*
	Red Wine	E	G*
	3M™ DuraPrep™	G*	F
Purdue Betadine Solution	G*	G*	

Based on 1-day and 7-day spot testing on concrete. Coating cured 2 weeks prior to testing.

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E = Excellent (No Adverse Effect) F = Fair (Moderate Adverse Effect)  
G = Good (Limited Adverse Effect or Staining) P = Poor (Unsatisfactory)  
\*Only adverse effect was staining

## PHYSICAL/ PERFORMANCE PROPERTIES

### ELECTRICAL PROPERTIES

Property	Test Method	Results
Surface Resistance Point to Point / Point to Ground	ESD Assoc. ANSI/ESD 7.1-2005	1x10 <sup>5</sup> ohms to <1x10 <sup>9</sup> ohms
Resistance to Ground in Combination with a Person	ANSI/EDS STM 97.1 (ANSI/EDS S20.20 – Method 1)	<3.5 x 10 <sup>7</sup> ohms (ESD shoes or heel straps)
Body Voltage Generation	ANSI/ESD STM 97.2 (ANSI/ESD S20.20 – Method 2)	12 volts with ESD shoes 32 volts with heel straps
Body Voltage Decay (with ESD shoes or heel straps)	AATCC 134-1979 (modified)	1,000 volts to <10 volts in <1 second

### MATERIAL (LIQUID)/COATINGS (DRY FILM) PROPERTIES

Property	Test Method	Results
Volatile Organic Compound (VOC) lb/gal (g/L)	ASTM D3960	0.11 (<13)
Abrasion Resistance, mg/loss Taber Abraser, CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions	ASTM D4060	38
Adhesion to Substrate / Bond Strength (MPE Primer)	ASTM D4541	Concrete failure
Coefficient of Friction James Friction Tester	ASTM D2047	.50
Wet Static Coefficient of Friction – BOT 3000	ANSI B101.1	0.95
Dry Film Thickness, mils (mm)		2.7 (0.07)
Flammability/Rate of Burn, mm/min (coating without ESD filler)	ASTM D635	50
Tensile Strength, psi (MPa) (resin only)	ASTM D2370	6250 (43.1)
Percent Elongation, (resin only)	ASTM D2370	6
Resistance to Yellowing as measured using ASTM D2244 after 1000 consecutive hours UV exposure in QUV	ASTM G154	<10 increase to yellow units (CIE Δb)
Water Absorption (24-hour immersion) (primer)	ASTM D570	0.2% weight increase

Testing performed at ambient conditions unless stated otherwise.  
Specifications subject to change without notice.

## SUSTAINABLE SOLUTIONS

**ec-H2O™ technology** electrically converts water into an innovative cleaning solution that cleans effectively, saves money, improves safety, and reduces environmental impact compared to daily cleaning floor chemicals.

**Orbio® Split Stream technology** generates a cleaning solution that can be used on and off the floor. It can reduce the expense, effort, and environmental footprint associated with conventional daily-use cleaning chemicals.

FOR FIRST IMPRESSIONS THAT LAST™

For additional information, call +1.800.553.8033

or email [info@tennantco.com](mailto:info@tennantco.com)

Tennant  
701 North Lilac Drive  
Minneapolis, MN 55422 USA

USA/Canada: +1.800.553.8033  
Quebec: +1.800.361.9050  
Overseas: +1.763.540.1315

[www.tennantco.com](http://www.tennantco.com)  
[info@tennantco.com](mailto:info@tennantco.com)