

Eco-DFS™/Eco-DQS™

The Proven Solution™ for High-Performance Decorative Floors

- **DURABLE** – With non-yellowing Eco-TCU™ or UV-resistant Eco-URE™ topcoats, Eco-DFS and Eco-DQS are more UV-stable than standard epoxy systems, and offer extreme resistance to heavy traffic
- **BEAUTIFUL** – Complement any environment with a virtual rainbow of highly UV-stable colors and patterns
- **SAFE** – Quartz exposed aggregate application provides one of the most slip-resistant floors available
- **COMPLIANT** – Tennant's line of Eco-Advantage® coatings meet VOC regulations in the United States, Canada, and Mexico

TENNANT COATINGS

For First Impressions That Last™



Choose one of the safest, most user-friendly, compliant coatings in the industry: the Tennant Eco-Advantage.

*The Tennant Eco-Advantage
is ideal for the growing
“green building” movement.*

Eco-Advantage coatings provide the durability, high performance, and outstanding results expected from all Tennant coatings.

ECO-COATINGS ARE:

Virtually odor-free

No shutdown is required and sensitive stock is protected as Eco-Advantage coatings have such a low odor, they can be applied during normal business hours.

Environmentally friendly

Reduced solvent means less evaporation and contamination, and this is what makes an Eco-Advantage coating one of the most environmentally friendly in the industry.

User-friendly

Eco-coatings are the most straightforward way to coat your floors. From the first call for a site survey, to the easy, simple preparation and application, to complete after-sale support, Tennant Eco-coatings are user-friendly and environmentally friendly.

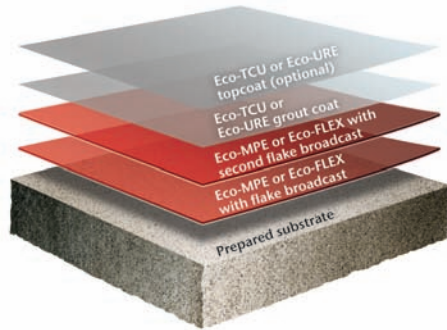
VOC compliant

Meets the Environmental Protection Agency VOC regulations in the United States.



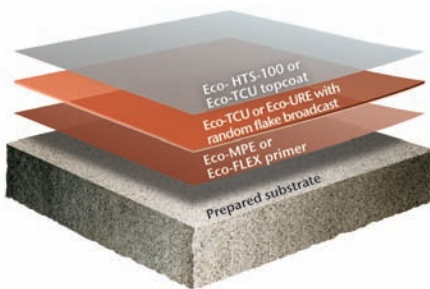
Eco-DFS Decorative Flake System

FULL BROADCAST



- Achieve high-performing and long-lasting coating results, while maintaining the aesthetic value of your design.
- Project a quality image through Tennant's decorative flake system, available in random and full flake blends.

RANDOM FLAKE



STANDARD FLAKE BLENDS



Checkerboard



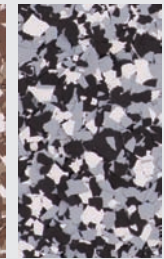
Storm



Evergreen

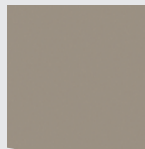


Tweed



Tornado

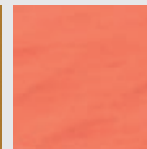
FLAKE SOLID COLORS



Adobe Beige



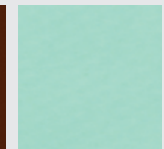
Autumn Brown



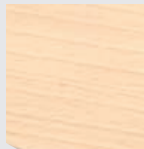
Canyon Red



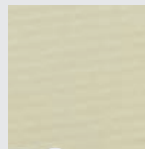
Cocoa Brown



Crest Green



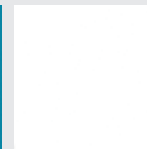
Peach



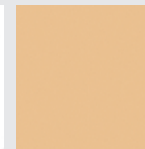
Dove Gray



Dusk Blue



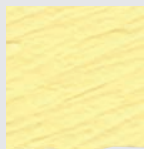
Eggshell White



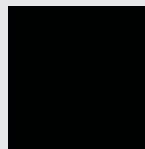
Fawn



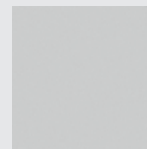
Forest Green



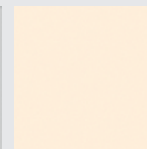
Gold



Marina Black



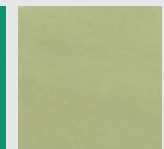
Medium Gray



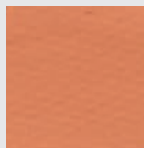
Milkweed



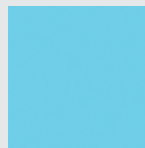
Mint Green



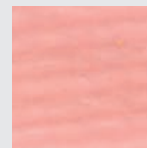
Olive



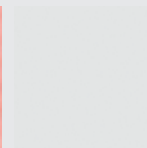
Patio Red



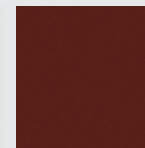
Powder Blue



Rose



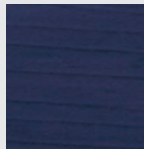
Whisper Gray



Brown



Burgundy



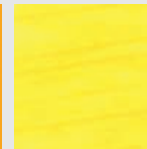
Dark Blue



Hunter Green



Orange



Primary Yellow



Red



True Blue

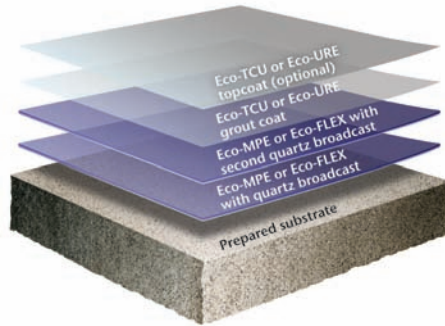
*Colors are close approximations. Please call for samples.



Eco-DQS

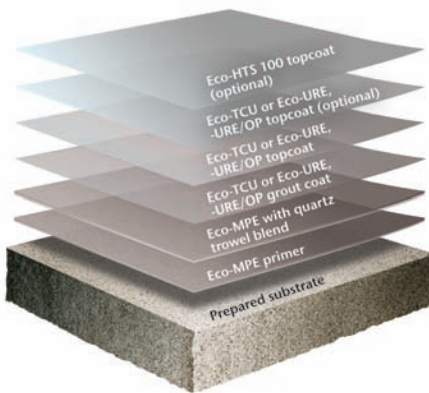
Decorative Quartz System

FULL BROADCAST

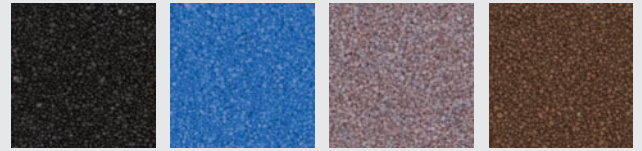


- Create a clean, safe, and attractive facility with a textured and slip-resistant broadcast surface or a smooth troweled finish.
- Combine the aesthetics required for a commercial environment with the performance of an industrial floor.

TROWELED FINISH



BROADCAST SOLID

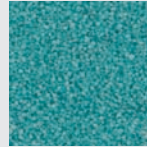


Black

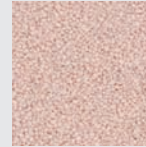
Blue

Plum

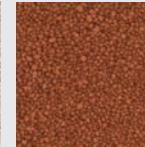
Brown



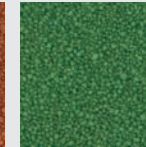
Cayman Green



Coral Rose



Red



Green



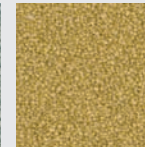
Peach



Tan



Grey



Buff

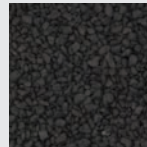


White

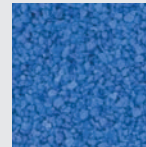


Smoke

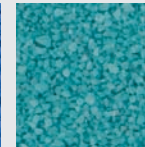
TROWEL SOLIDS



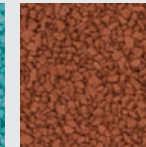
Black



Blue



Cayman Green

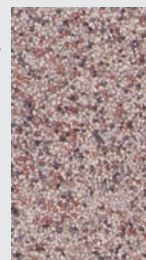


Red



White

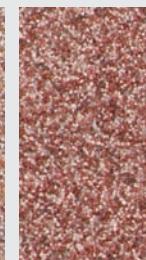
STANDARD BROADCAST BLENDS



Black Cherry



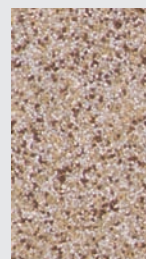
Cinnamon Twist



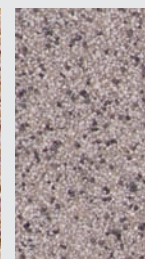
Cranberry Red



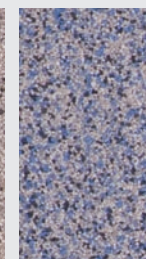
Northwoods Green



Sandstone



Stone Gray



Twilight Blue



Wild Plum

*Colors are close approximations. Please call for samples.



Compared to VCT or carpet, your decorative floor is more durable and consistently attractive with lower total installation and maintenance costs over time.

*With non-yellowing
Eco-TCU or UV-resistant
Eco-URE and -URE/OP
topcoats, Eco-DFS and
Eco-DQS are more
UV-stable than standard
epoxy systems.*

Decorative coating solutions from Tennant combine extreme durability, high chemical resistance, slip reduction, and light reflectivity to create a floor that will hold its aesthetic beauty for years to come.

COMMERCIAL

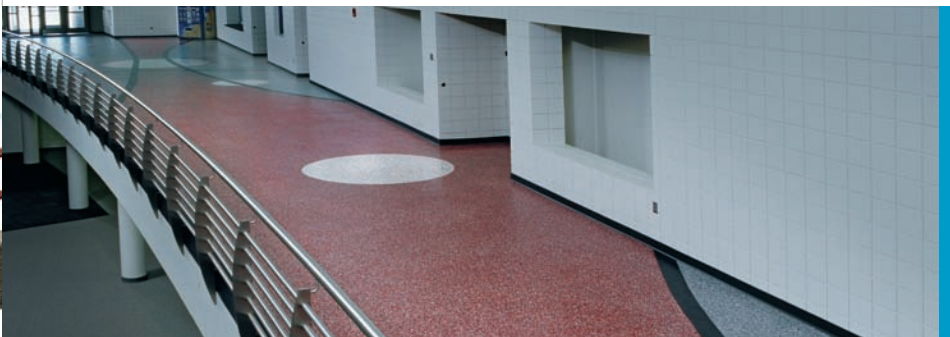
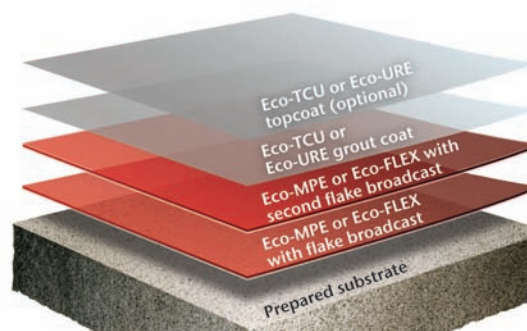
From automotive showrooms to clubhouse staging areas, coating solutions like Eco-DFS and Eco-DQS help to make a world-class impression with customers, visitors, partners, and prospective clients.

- Auto dealerships
- Retail outlets
- Sporting facilities
- Airport concourses
- Hotel lobbies

INSTITUTIONAL

From schools with high foot traffic to hospitals with high bacterial resistance standards, coating solutions for institutions include Eco-DFS and Eco-DQS.

- Universities
- Hospitals
- Sports facilities
- Kitchens and bathrooms
- Schools
- Prisons



TENNANT COATINGS *For First Impressions That Last™*

Eco-DFS/DQS Snapshot

APPEARANCE:	Semi-gloss through high-gloss, depending on number of Eco-TCU or Eco-URE coats
SURFACE TEXTURE:	Choose smooth (troweled quartz and random flake) to highly textured (broadcast flake and quartz) for slip resistance
COLOR:	A myriad of standard and custom colors available in both quartz and flake
DURABILITY:	Superior chemical and abrasion resistance. Resistant to cracking with use of Eco-FLEX™
UV STABILITY:	Eco-TCU – 100% Aliphatic Formula; non-yellowing over the expected life of the coating Eco-URE – UV-resistant epoxy
APPLICATIONS:	Schools & universities, hospitals, nursing facilities, office buildings, retail stores, kitchens and lavatories, veterinary clinics, stadiums, convention centers, and other high-traffic areas where both durability and image are important

Chemical Resistance Properties

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

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

Note: Reduced chemical resistance and increased staining is possible in pigmented versions of this system.
Skydrol® is a registered trademark of Monsanto. Tide® is a registered trademark of Procter and Gamble.

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



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www.tennantfloorcoatings.com
E-mail: info@tennantco.com

Physical/Performance Properties

MATERIAL PROPERTIES (LIQUID)		Eco-TCU Results	Eco-URE, -URE/OP Results
Property	Test Method		
Flash Point, °F (°C) Seta Closed Cup	ASTM D3278	Part A: 125 (93) Part B: 138 (93)	Part A: >200 (93) Part B: >200 (93)
Percent Solids, by weight	ASTM D2369	Part A: 88.4 Part B: 93.6 Part A/B: 90.6	Part A: 99.3 Part B: 99.8
Density, lb/gal (kg/L)	ASTM D1475	Part A/B: 8.91 (1.07)	URE Part A/B: 9.08 (1.09) URE/OP A/B: 9.12 (1.09)
Viscosity, cps Brookfield	ASTM D2196	Part A/B: 275-375	URE Part A/B: 400-700 URE/OP Part A/B: 4,000-6,000
Volatile Organic Compound (VOC) lb/gal (g/L)	ASTM D3960	A/B 0.8 (100)	A/B 0.05 (6)

MATERIAL PROPERTIES OF AGGREGATE (QUARTZ)

Property	Test Method	Results	Results
Aggregate Hardness	Moh's Mineral Scale	6.5-7	6.5-7
Aggregate Particle Size	ASTM D451	US Sieve Retained 20 30 40 50 70 -70	% 0-10 5-15 50-70 15-30 0-5 0-1

CURED COATING PROPERTIES (DRY FILM)

Property	Test Method	Eco-TCU Results	Eco-URE, -URE/OP Results
Abrasion Resistance, mg loss* Taber Abraser	ASTM D4060	70-90	80-90
Coefficient of Friction (COF) James Friction Tester	ASTM D2047	>0.52** (depending on texture)	>0.50** (depending on texture)
Tensile Strength, psi (kPa)	ASTM D2370	7,000 (48,300)	8,000 (55,200)
Percent Elongation	ASTM D2370	7	5
(1 mil film) Konig Hardness	ASTM D4366	154	
UV/Light Stability		Non-yellowing over life of coating	Will amber over time, but outperforms most UV resistant epoxies

*CS-17 Taber Abrasion Wheel, 1,000 gram load, 1,000 revolutions. Results are based on 2-week ambient cure.

**Random flake or full broadcast quartz/flake floors with multiple topcoats that have a virtually smooth texture will need grit to get COF values >0.5.

APPLICATION CHARACTERISTICS

Property	Eco-TCU/Eco-URE, -URE/OP ¹	Full Broadcast		Troweled Quartz
		Flake	Quartz	
Coverage Rate	107-535 ft ² /gal	0.2 lbs/ft ²	0.4-0.5 lbs/ft ²	13 ft ² /mix
Application Thickness	3-15 mils	Nominal 1/8" (2 layers)		3/16"

(Results are based on conditions at 77°F, 50% relative humidity.)

¹Eco-URE/OP will "ghost" or appear cloudy if applied at > 8 mils per coat.

For 135 years, high-performing Tennant flooring solutions including coatings, sweepers, and scrubbers have been used to minimize maintenance and repair costs and maximize a floor's natural life.

Please call our technical experts toll-free at 800.228.4943 anytime day or night.