



# TECHNICAL DATA SHEET

## PERMAFLEX

### PRODUCT DESCRIPTION

Sani-Tred's Permflex is a two component, high solids, environmentally safe, polyurethane coating. Permafex is a coating that can be used either indoors or outdoors. Permafex will bond permanently to properly prepared concrete and wood. It is an excellent coating to broadcast color flakes or EPDM rubber into.

**STANDARD COLORS:** Dark Tan, Black, White  
**OTHER COLORS ALSO AVAILABLE:** Custom Colors Available (250 Gallon Min.)  
**REVISION DATE:** September 3, 2021

### CURE SCHEDULE (70°)

**POT LIFE (1.5 GAL VOLUME):** 60-90 min  
**TACK FREE (DRY TO TOUCH):** 4-6 hours (70F and 50% humidity)  
**RECOAT OR TOPCOAT:** 2-8 hours  
**LIGHT FOOT TRAFFIC:** 12-14 hours  
**FULL CURE:** 28 days

### COVERAGE

Recommended for interior/exterior floors, parking decks, waterproofing, and rust proofing.

**COVERAGE PER GALLON:** 200-260 sq. ft

**MIX RATIO:** 1.6oz catalyst & 6.4 oz

accelerator per gallon, 10-20%

solvent for thinning

recommended

**RECOMMENDED FILM THICKNESS:** 6 (+/-2) mils

**PACKAGING INFORMATION:** 1/2 pt. cans, 1 qt. cans, 1 gal., 5 gal.

### PHYSICAL PROPERTIES

**FLEXURAL STRENGTH:** N/A  
**COMPRESSIVE STRENGTH:** N/A  
**TENSILE STRENGTH:** 2030 psi @ASTM D-412  
**ADHESION:** 400pli  
**VISCOSITY:** 5000 (+/-900) cps  
**ABRASION RESISTANCE:** 1000 gram total load and 500cycles = No significant effects  
**ULTIMATE ELONGATION:** 590% @ASTM D-412  
**HARDNESS:** Shore D=80(+/-5)  
**VOLATILE ORGANIC CONTENT:** <82 grams per liter  
**SHELF LIFE:** 2 years in unopened containers  
**TOTAL SOLIDS BY VOLUME:** 89.5% @ASTM D-2697  
**TOTAL SOLIDS BY WEIGHT:** 92.2% @ASTM D-2369  
**SPECIFIC GRAVITY:** 1.9  
**NEGATIVE HYDROSTATIC PRESSURE:** Hg for 110 hours @ASTM-2240  
**TEAR RESISTANCE:** Die C 320 pli @ASTM-624  
**MOISTURE VAPOR DRIVE RETENTION:** Exceeds 30 psi

### CHEMICAL RESISTANCE

REAGENT	RATING
SALT WATER	NO EFFECT
DISTILLED WATER	NO EFFECT
5% DETERGENT SOLUTION	NO EFFECT
ANTI-FREEZE	NO EFFECT
HYDROCHLORIC ACID 36%	NO EFFECT (HIGHER TESTING NOT REQUIRED)
SODIUM HYDROXIDE 50% SOLUTION	NO EFFECT (HIGHER TESTING NOT REQUIRED)
SULFURIC ACID 60% SOLUTION	NO EFFECT (HIGHER TESTING NOT REQUIRED)
H <sub>2</sub> S (HYDROGEN SULFIDE) 30 DAY IMMERSION	NO EFFECT

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REAGENT	RATING
SULFURIC ACID 5% SOLUTION 30 DAY IMMERSION	NO EFFECT
SULFURIC ACID 10% SOLUTION 30 DAY IMMERSION	NO EFFECT
CAUSTICS	NO LIMIT - NO EFFECT
AMMONIUM HYDROXIDE	NO LIMIT - NO EFFECT
NITRIC ACID 50% SOLUTION	UP TO 50% - NO EFFECT
HYDROGEN PEROXIDE 50% SOLUTION	NO LIMIT - NO EFFECT
HYDROGEN FLUORIDE	NO LIMIT - NO EFFECT
HYDROGEN SULFIDE	NO LIMIT - NO EFFECT
CALCIUM HYDROXIDE	NO LIMIT - NO EFFECT
GASOLINE	SLIGHT STAIN
MOTOR OIL	SLIGHT STAIN
HYDRAULIC BRAKE FLUID	SLIGHT BLEACHING
DIESEL FUEL	NO EFFECT
JP - 4	NO EFFECT
JP - 5	NO EFFECT
JP - 7	NO EFFECT
JP - 8	NO EFFECT

### LIMITATIONS

- Surface to be coated must be dry and free from moisture.
- Surface preparation must include acid etching and/or shot blasting.
- Not recommended for OSB (Oriented Strand Board) surfaces
- Not recommended for Advantech surfaces
- Not recommended for polypropylene surfaces

### BENEFITS

- Permanently waterproof most construction surfaces
- Keeps concrete, wood, steel and more protected
- Prevents mildew and mustiness from groundwater
- Prevents mold
- 99% radon gas protection
- Temperature range -15 to 250 degrees F

### INSTRUCTIONS

- 1) Pre-mix PermaFlex until well blended
- 2) Add correct measurements of PermaFlex Catalyst (1.6 oz. per 1 gal.), and PermaFlex Accelerator (6.4 oz. per 1 gal. for slow set/ 12.8 oz. per gal. for fast set), mix until well blended
- 3) Add desired amount of solvent (10%-20% by volume), mix until well blended
- 4) Apply using an 1/8" notched squeegee
- 5) Using a 3/8" nap roller, backroll for consistent coverage

### NOTICE TO BUYER: DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY:

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