



# FLOORTEX™ COATING TECHNICAL DATA SHEET

PART# 10FLRTXISO

PART# 10FLRTXRSN

Garage Living Floortex™ polyaspartic floor coating is a 85% solids two-component, rapid curing, environmentally-friendly polyaspartic coating system designed as a decorative yet durable coating for floors and other secondary applications. Formulated with aliphatic chemistry, Floortex™ is color stable allowing it take UV exposure without color shifts seen with other coating systems such as epoxies. Floortex™ is a 1:1 mix ratio system with sufficient pot life to be rolled, brushed, squeegeed or sprayed with appropriate application equipment. It has a robust application window with ability to apply at low temperatures and moderate humidity.

**PRIMARY APPLICATIONS:** Floortex™ creates a durable, seamless lining which conforms to any shape and size. Excellent durability and aesthetics for floor, verticals and other coatings including:

- Garage Floors
- Pool Decks
- Laboratories
- Restaurant Floors
- Airplane Hangars
- Bridge Decks
- Bridge Entry/Lobby Areas
- Wall Coatings
- Maintenance Facilities
- Industrial Shop Floors
- Exterior Patios & Walkways
- Secondary Containment

## FEATURES & BENEFITS

**FAST CURE** - Allowing rapid turnaround time; under normal conditions, foot traffic within 12 hrs, return to service in 48 hrs

**IMPACT & ABRASION RESISTANT** - Excellent abrasion and impact resistance

**LOW ODOR** Lower odor than most polyaspartics

**CHEMICAL RESISTANT** - Excellent chemical resistance

**LOW TEMPERATURE CURE** - Can be applied below -22°F (-40°C).

**HOT TIRE PEEL RESISTANT** - Resistant to hot tire peel

**LOW VOC** - Ultra low VOC and also in zero VOC formulation for restricted areas where adequate ventilation does not exist

**HIGH TEMPERATURE RESISTANT** Tolerant to 300°F (149°C) for random, incidental heat contact

**FOOD CONTACT SAFETY** - Meets USDA/CFSAN, U.S. Food Code, physical facilities criteria as outlined in chapters 6-1 & 6-2 surface characteristics USDA acceptable. Also complies with CFR 21 - CFR 175.300 & 177.1680 regulations for incidental food contact

**EXCELLENT ADHESION & BONDING** - Bonds to virtually all substrates of any dimension, including metals, concrete and fiberglass

**TRACTION AGENTS** - Micro media traction agents can be introduced into the liquid system or dispersed into the top coat for added traction in wet environments

**FRICTION PROPERTIES** - Excellent coefficient of friction properties

**UV RESISTANT** - Excellent UV resistance, non yellowing and high gloss characteristics

**HIGH BUILD CAPABLE** - High build capability in lifts of 10 - 12 mils maximum.

**COLOR STABLE** - Excellent color stability. Achieve a variety of colors, patterns & logos, using decorative flakes, particles, or signs

**WALK ON TIME** - Foot traffic in 12 Hrs.

**HIGH FLEXIBILITY** - Passes 90° Mandrel bend test

**HIGH ELONGATION** - Will stretch 100% of its own dimension to prevent crack re-appearance

**ADJUSTABLE CURE RATE** - Simplifies installations in all temperatures by maintaining consistent cure times and material pot life

**EXTENDED OPEN TIMES** - Better workability while maintaining a fast cure rate

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## CHEMICAL PROPERTIES:

DISCRIPTION	DATA
<b>Volatile Organic Compounds (system)</b>	150 g/l
<b>Mix Ratio, parts per volume</b>	1A:1B
<b>Pot Life, minutes</b>	20 - 30
<b>Recoat, max</b>	48 hrs
<b>Dry to Touch</b>	1 - 3 hrs
<b>Walk on Time (foot traffic)</b>	12 - 24 hrs
<b>Return to Service Time (vehicle traffic)</b>	48-96 hrs
<b>Full Cure</b>	7 days
<b>Coverage Rate per Gallon (depending on substrate porosity)</b>	100 - 250 sqft
<b>Recommended Application Temperature</b>	-22°F - 120°F (-30°C - 50°C)
<b>Odor</b>	mild
<b>Color</b>	clear
<b>Shelf Life - Unopened Containers</b>	12 months

## TYPICAL PHYSICAL PROPERTIES:

DISCRIPTION	TEST	RESULT	
<b>Compressive Strength: (psi Mpa) *W/Quartz *W/Chip</b>	ASTM D695	9400 13800 12000	
<b>Gloss</b>	ASTMO-523	90+	
<b>Tear Strength(PLI)</b>	ASTM-2240	330	
<b>Tensile Strength (psi)**</b>	ASTM D-412	6500	
<b>Elongation (%)**</b>	ASTM D-412	100	
<b>Hardness, Shore D</b>	ASTM D2240	78	
<b>Flexibility 1/8" Mandrel</b>	ASTM D1737	Pass	
<b>Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight</b>	ASTM D-4060	28	
<b>Coefficient of Friction (static)</b>			
<b>• Polyaspartic with Chips:</b>	<b>-Dry</b>	ASTM C-1028	0.987μ
	<b>-Wet</b>	ASTM C-1028	0.735μ
<b>• Polyaspartic with Quartz:</b>	<b>-Dry</b>	ASTM C-1028	1.195μ
	<b>-Wet</b>	ASTM C-1028	0.988μ
<b>Water Vapor Transmission: -Rate of Transmission (grains/hr/sqft) -Permanence (perm, in - lb)</b>	ASTM E-96	0.58 1.63	
<b>Water Absorption (%)</b>	ASTM D-570	≤0.5	

**DRY FILM THICKNESS:** Floortex™ is typically applied in two coats, the pigmented base coat and a clear top coat. Decorative flakes or quartz granules are broadcast into the base coat. Total coating thickness is typically 15 - 20 mils with decorative flakes. See Garage Living representative for your specific application.

**MOISTURE VAPOR TESTING:** All concrete floors not poured over a proper moisture barrier, are subject to possible moisture vapor transmission or hydrostatic pressure problems which can cause a coating system to blister or fail. A moisture emission measurement system per ASTM F-1869 Calcium Chloride or ASTM F-2170 slab humidity is necessary to assess the moisture drive of a concrete slab prior to installation of any toppings or coatings. The transmission rate must not exceed three pounds per 1,000 square feet per 24 hours in the chloride test or the relative humidity of the slab must not exceed

8% with the humidity test. If there is a moisture emission situation in excess of either rate, consult Garage Living technical department for assistance. The sealing system application process will depend on the flooring system being installed, reference appropriate specification for details.

**SURFACE PREPARATION:** The surface must be clean and sound, free from oil, dirt, waxes, efflorescence and any other contaminants that may interfere with bonding. Always check the surface for any bond inhibitors prior to application. Any surface or structural repairs must be addressed prior to application and should be repaired in accordance with ICRI standards. Always properly prepare surface as an open, porous surface is necessary for proper bonding. You can determine the openness of the pores using the water drop test. The surface must be deemed structurally and mechanically sound, clean, and dry. Proper surface preparation is required

for decorative-concrete, thin-film "Class-A-type" flooring systems or sealer/finish coatings. This is best achieved with mechanical diamond grinding machines achieving a final 25 to 40-grit profile. Recommended surface profile is CSP-2 to CSP-3, Reference ICRI Technical Guideline No. 03732.

**MIXING INSTRUCTIONS:** For the base coat mix part A and part B in equal parts (1:1) using a clean, dry working vessel recommend 1/2 gallon of A and 1/2 gallon of part B with 1 pint of desired pigment. Stir gently; avoid over-mixing or creating a vortex that would introduce moisture. Do not mix below the dew point, which will shorten the pot life. No induction time similar to epoxy mixtures is required prior to use. You can dilute the mixture up to 10% with DMM or oxol if desired.

**WARNING:** Large masses of mixed and/or heated material will have a shorter pot-life. Do not apply in direct sunlight when temperatures and humidity are high.



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## APPLICATION INSTRUCTIONS:

**WARNING:** Floortex™ is combustible and squeegee, proper ventilation should be used during its application. Extinguish all pilot lights and any source of ignition. Squeegee / roller application is the recommended process. Ideally the roller should be an 18" industrial grade phenolic resin core with a synthetic nap or lambs-wool cover 1/4" - 3/8" nap. Small chip brushes or 6 - 8" wall edgers may be used along the perimeter and in more difficult to reach areas. Floortex™ will typically dry to the touch 1-3 hours after application, dependent on the substrate and atmospheric ambient temperature and humidity. Re-coating may occur once the base coat is dry or when deemed appropriate by system specification. Cure time is effected by environmental conditions. Do not force dry. High humidity and/or low temperatures can cause haziness and blushing in the coating. Foot traffic is generally acceptable after 1 - 2 hours with 48 hours minimum required for vehicular traffic. Full cure will occur in 4 - 7 days. For Professional Installation, refer to detailed Application Guidelines. For tool cleanup use Xylene, MEK or Acetone. Do Not use Alcohols.

**NOT RECOMMENDED FOR:** Do not use to bridge cracking in substrate. Do not use over acrylic sealers or acrylic primers unless they are de-glossed

first. Floortex™ requires moisture/vapor barrier for surfaces with a MVT (Moisture Vapour Transmission) greater than 3lbs per 1000 square feet. It is not resistant to strong acids.

**PIGMENT COLOR OPTIONS:** Standard colors available: Light Grey, Medium Grey, Dark Grey, Taupe, Black. Custom colors are also available by special order. Decorative Chips available in 14 standard and custom colors; Decorative Quartz available by custom order.

**STORAGE:** Store in sealed containers at 60-90°F (15-32 °C) in a dry area.

**Do not store in direct sunlight.  
Do not let freeze.**

**SLIP/FALL PRECAUTIONS:** Slip resistant granules are recommended in all outdoor applications where the Floortex™ will be used and on some indoor some applications that may be exposed to standing water, oil or other spills that may cause a slippery environment. Aluminum oxide granules or silica sand #80 grit or courser may be broadcast into the top coat to achieve the amount of slip resistance desired. It is the end users responsibility to determine the suitability of a coating for their particular application. Garage Living or its sales people will not be responsible for injury incurred in a slip/fall accident.

## SAFETY PRECAUTIONS: Health Considerations: Consult the Garage Living Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Garage Living product SDS and Safety Manual for detailed information and handling guidelines. **For Your Protection:** The information and recommendations in this publication are, to the best of our knowledge, reliable. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested.

**WARRANTY:** Because of numerous factors affecting results. **Garage Living makes no warranty of any kind, express or implied,** other than that the material conforms to its applicable current Standard Specifications. Garage Living hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Garage Living for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

## CHEMICAL RESISTANCE:

Chemicals	Result	Chemicals	Result	Chemicals	Result	Chemicals	Result
Acetic Acid 100%	C	Hydrochloric Acid 20%	R	Phosphoric Acid 10%	R	Sulfuric Acid >50%	RC
Acetone	C	Hydrofluoric Acid 10%	NR	Phosphoric Acid 50%	NR	Toluene	R
Ammonium Hydroxide 50%	RC	Hydraulic fluid (oil)	RC	Potassium Hydroxide 10%	R	Transmission Fluid	R
Anti-freeze	R	Isopropyl Alcohol	RC	Potassium Hydroxide 20%	R Dis	1, 1,1-Trichlorethane	C
Benzene	C	Lactic Acid	RC	Propylene Carbonate	RC	Trisodium Phosphate	R
Brake Fluid	R	MEK	RC	Skydrol	C	Vinegar/H2O 5%	R
Brine saturated H2O	R	Methanol	R	Sodium Hydroxide 25%	R	Xylene	RC
Chlorinated H2O	R	Methylene Chloride	C	Sodium Hydroxide 50%	R Dis		
Clorox(10%) H2O	R	Mineral Spirits	RC	Sodium Hypchlorite 10%	R		
Diesel fuel	RC	Motor Oil	R	Sodium Bicarbonate	R		
Dissolved Rock Salt	R	MTBE	C	Stearic Acid	R		
Gasoline	RC	Muriatic Acid 10%	R	Sugar/H2O	R		
Gasoline/5% MTBE	RC	NaCl/H2O 10%	R	Sulfuric Acid 10%	R		
Gasoline/5% Methanol	RC	Nitric Acid 20%	NR				

**Chemical Resistance: Chart Key**  
**R=** recommended/little or no visible damage  
**RC=** recommended conditional/ some effect, swelling or discoloration  
**C=** Conditional/Cracking-wash within one hour of spillage to avoid affects  
**NR=** Not recommended  
**Dis=**discolorative