RES-TEK®
Commercial & Industrial Flooring Solutions

PUR-Guard™ HF
Heavy Duty Urethane Cement

PRODUCT DESCRIPTION

Res-Tek PUR-Guard™ HF is a low odor, 3-component, trowel applied, cementitious aromatic urethane flooring material designed to be the choice alternative to acid brick, quarry tile, and coatings for areas that require abrasion resistance, thermal shock resistance, as well as resistance to chemical attack and slip and falls.

PUR-Guard HF standard system is a 100% solid, heavy duty, 1/4" - 3/8" trowel applied cementitious urethane system. PUR-Guard HF can be lightly broadcast with industrial grade silica or aluminum oxide to enhance slip resistance. PUR-Guard TC is optional depending on the installation.

TYPICAL USES

- Food and Beverage
- Breweries/Wineries
- Manufacturing facilities
- Warehouse traffic areas
- Aircraft hangars
- Laboratories
- Dining areas
- Restrooms
- Commercial kitchens
- Dairies

PROPERTIES

- Meets FDA/USDA requirements
- Antimicrobial properties
- Withstands thermal shock up to 240°F
- High tolerance of moisture vapor transmission
- High abrasion and impact resistance
- Installs on green (10-day old) concrete
- Chemical resistant
- Matching seamless cove base for wall protection
- Designed specifically to withstand heavy impact and traffic
- Minimal maintenance costs

STORAGE CONDITIONS

Store material in a cool and dry place out of direct sunlight. Do not store near open flame or ignition source. Read and understand all product labels and SDS sheets prior to use.

Component	Part A	Part B	Part C	Pigment
Shelf Life	12 months	12 months	9 months	12 months

APPLICATION CONDITIONS	
Application Temperature	60° to 80°F
Substrate Temperature	≤ 5°F above dew point
Relative Humidity	25% - 80%

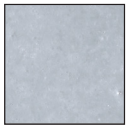
PHYSICAL CHARACTERISTICS

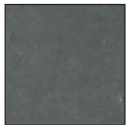
Compressive Strength ASTM C579 (psi)	8,050	**Modulus of Elasticity ASTM D2370 (lbf./sq. in.)**	19,500
Tensile Strength ASTM C307 (psi)	1,460	**Adhesion ASTM D7234**	Exceeds the tensile/cohesive strength of concrete
Taber Abrasion ASTM D4060	20-30	**VOC (g/L):**	0 g/L
Water Absorption (ASTM C413, wt.%)	.< 0.1	**Coefficient of Friction**	Meets or exceeds ADA recommendations
Moisture Vapor Transmission Limitations	Calcium Chloride (ASTM F-1869) 20 lb/1000 sq.ft./24 hrs, and 99% RH using in-situ RH probe (ASTM F-2170)	**Impact Resistance**	No visable damage at minimum 160 in. -lb.

For the most current Product Data and Application information, consult your Res-Tek representative. The information and recommendations in this Product Data Sheet are based on tests conducted by or on behalf of Res-Tek, in a controlled environment, and reflect current information as of the publication date. This information is subject to change.

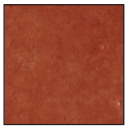
PHTHALATE FREE CERTIFIED

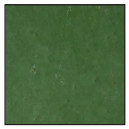
COLOR OPTIONS - PUR-Guard systems are available in several standard color options.


P-21 (Gray)


P-22 (Dark Gray)


P-23 (Black)


P-24 (Red)


P-25 (Green)


P-27 (Beige)


P-28 (Chocolate)

STANDARD PACKAGING

COMPONENT	ITEM NAME	FILL
Part A	PUR-Part-A-0.25GAL	0.25 gal
	PUR-Part-A-0.5GAL	0.5 gal
	PUR-Part-A-1GAL	1 gal
	PUR-Part-A-5GAL	5 gal
	PUR-Part-A-50GAL	50 gal
	PUR-Part-A-250GAL	250 gal
Part B	PUR-Part-B-0.25GAL	0.25 gal
	PUR-Part-B-0.5GAL	0.5 gal
	PUR-Part-B-1GAL	1 gal
	PUR-Part-B-5GAL	5 gal
	PUR-Part-B-50GAL	50 gal
	PUR-Part-B-250GAL	250 gal
Part C	PUR-Part-C-HF	52 lb. bag

	THICKNESS	THEORETICAL COVERAGE
HF MIX YIELDS	1/4”	21 - 23 sq.ft.

CURE TIME @ 70°F RH 50%

	RECOAT/FOOT TRAFFIC	FULL CURE
HF	8-10 hours	24 hours

MOISTURE MITIGATION

For moisture mitigation above PUR-Guard limits, Calcium Chloride (ASTM F-1869) 20 lb/1000 sq.ft./24 hrs, or 99% RH using in-situ RH probe (ASTM F-2170), additional products are required. If waterproofing is required please consult your Res-Tek representative for more information.

PRIMING

If concrete out-gassing occurs resulting in surface irregularities, the substrate should be primed with PUR-Guard TC. The primed area should be allowed to dry tack free before proceeding with the body coat application. Installation of a test patch may be helpful to determine if priming is necessary.

MIXING & APPLICATION

- Mix Only Full Kits, Do Not Split.
- Mix in 5 gallon plastic pail using a low speed drill equipped with a spiral mixing blade.
- Refer to product labeling or mixing chart for exact instructions.
- Add Part A to mixing bucket, add pigment pack and mix until blended, add Part B and mix for 15 - 30 seconds only.
- With mixer running, immediately add approximately one quarter of the appropriate filler.
- Gradually add remainder of filler and mix until blended and lump free.
- Mixing should take no longer than 2-3 minutes.
- Apply material to floor immediately after mixing.
- Spread to specified thickness using steel trowel or screed box.
- Finish with a steel trowel.
- Surface can be lightly rolled with a loop roller to smooth imperfections and float resin to the surface.
- Broadcast immediately with Res-Tek approved aggregate of choice.

Please refer to the Application Guide for detailed instructions.

TOPCOAT

After thorough sweeping and vacuuming, apply PUR-Guard TC topcoat at 130 - 135 sq.ft. per mix.

WARRANTY

Res-Tek Inc. warrants that materials shipped to buyers are free of any defects in material or workmanship according to Res-Tek’s published data if used in accordance with Res-Tek’s specified application procedure. Res-Tek Inc. shall not be responsible for any claim resulting from failure to utilize product in the manner in which it was intended, and in accordance with Res-Tek’s application guidelines. Res-Tek Inc. has no responsibility for application and processing of products.

- This product data sheet was prepared as a general guide only. Please contact your local Res-Tek Representative or our Technical Service department for assistance prior to any application.

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