

## PRODUCT DESCRIPTION

Res-Tek PUR-Guard™ RT is a low odor, 3-component, self-leveling, 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 RT standard system is typically a solid color floor broadcast with industrial grade silica sand and sealed with PUR-Guard TC. PUR-Guard RT can also be the body coat of Hybrid systems where Colored Quartz or Colored Flake can be broadcast and sealed with other Res-Tek topcoat resins as a decorative alternative flooring solution.

## TYPICAL USES

- Food and Beverage
- Manufacturing facilities
- Warehouse traffic areas
- Aircraft hangars
- Retail sales spaces
- Laboratories
- Dining areas
- Restrooms

| Component         | Part A    | Part B    | Part C   | Pigment   |
|-------------------|-----------|-----------|----------|-----------|
| <b>Shelf Life</b> | 12 months | 12 months | 9 months | 12 months |

## PHYSICAL CHARACTERISTICS

|                                            |                                                                                                                |       |                                                   |                                                      |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------|------------------------------------------------------|
|                                            |                                                                                                                |       |                                                   |                                                      |
| Compressive Strength<br>ASTM C579 (psi)    |                                                                                                                | 8,150 | Modulus of Elasticity<br>ASTM D2370 (lb./sq. in.) | 19,500                                               |
| Tensile Strength<br>ASTM C307 (psi)        |                                                                                                                | 6,450 | Shore D Hardness<br>(ASTM D2240):                 | 85                                                   |
| Taber Abrasion<br>ASTM D4060               |                                                                                                                | 20-30 | VOC (g/L):                                        | 0 g/L                                                |
| Water Absorption<br>(ASTM C413, wt.%)      |                                                                                                                | < 0.1 | Coefficient of Friction                           | Meets or exceeds ADA<br>recommendations              |
| Moisture Vapor<br>Transmission Limitations | Calcium Chloride (ASTM F-1869) 20<br>lb/1000 sq.ft./24 hrs, and 99% RH<br>using in-situ RH probe (ASTM F-2170) |       | Adhesion<br>ASTM D7234                            | Exceeds the tensile/cohesive<br>strength of concrete |

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.

## PROPERTIES

- Meets FDA/USDA requirements
- Antimicrobial properties
- Withstands thermal shock up to 220°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

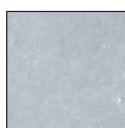
## STORAGE CONDITIONS

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.

### APPLICATION CONDITIONS

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

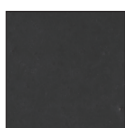
## COLOR OPTIONS - PUR-Guard systems are available in several standard color options.



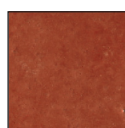
P-21 (Gray)



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-RT      | 40 lb. bag |

|               | THICKNESS | THEORETICAL COVERAGE |
|---------------|-----------|----------------------|
| RT MIX YIELDS | 1/4"      | 18 - 20 sq.ft.       |
|               | 3/8"      | 13 - 15 sq.ft.       |

## CURE TIME @ 70°F RH 50%

|    | RECOAT/FOOT TRAFFIC | FULL CURE |
|----|---------------------|-----------|
| RT | 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 HD-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 a cam rake or gauge rake and / or a steel trowel.
- Once material is placed, using a magic trowel is optional, but use of a loop roller is necessary to de-aerate and level to desired thickness.
- 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.