

## RESILIENT ARMOUR PANEL INTERIOR (CLIMATE CONTROLLED) ENVIRONMENTS

For use with Resilient Armour workshop floor panels. Interior environments that are climate controlled. See Resilient Armour sheet for environmental requirements

## DESCRIPTION

Resilient Armour Adhesive (RA adhesive) is a safe, 1-part chemistry makes it a faster, more install-friendly alternative to 2-part epoxy systems. Engineered for heavy rolling loads and challenging environments, Resilient Armour adhesive is waterproof design forms a robust moisture vapor barrier and can also take the punishment introduced by topical liquids.

## APPROVED SUBSTRATES & SURFACES

- APA underlayment grade plywood and OSB
- Association grade particleboard
- Cement backer board
- Concrete and radiant heated subfloors that do not exceed 85°F (30°C)
- Existing well-bonded non-cushion-backed vinyl, tile and sheet flooring
- Fully secured cork underlayments
- Gypsum and lightweight concrete (primed with Taylor 2025 Universal Primer or Enhance®)
- Terrazzo (properly prepared with all waxes and surface finishes removed)

## SUBSTRATE TESTING

**RH** - No testing required (100%) [ASTM F2170]

**pH** - No testing required (5-14)

**MVER** - No testing required [ASTM F1869]

Follow Resilient Armour's manufacturer's guidelines. Substrate must be prepared per ASTM F710 standards including, but not limited to the following:

## SUBSTRATE PREPARATION

- Concrete floors must be dry, clean, smooth and structurally sound. They shall be free of any foreign materials that might prevent adhesive bond, including dust, dirt, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, incompatible sealers, fire-retardant chemicals, fungicides, release agents, alkaline salts, excessive carbonation, laitance, mold, mildew, and curing, sealing, hardening or parting compounds.
- Fill all surface cracks, grooves, depressions, control joints and non-moving joints with moisture-resistant patching and self-leveling compounds, allow to fully cure and correct high spots before applying adhesive.
- The substrate, adhesive and flooring must be acclimated in an enclosed building with the HVAC operational between 60-95°F (15-35°C), and between 30-65% relative humidity, for at least 72 hours before, during and after the installation.
- When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and after installation. Failure to turn the heat off may result in shortened working time of the adhesive. When turning radiant heat back on, raise it incrementally, not to exceed a change of more than 5 degrees per hour to a maximum of 85°.

### PRECAUTIONARY NOTES:

- Concrete must be placed in strict accordance with applicable standards and specifications, must be fully cured (at least 45 days) and without hydrostatic pressure.
- Flooring must be acclimated per manufacturer's guidelines.
- When used as a concrete moisture vapor barrier, substrate must be porous per ASTM F3191.

## APPLICATION INSTRUCTIONS

RA-adhesive may only be used as a wet-set adhesive. Follow Resilient Armour's manufacturer's guidelines for layout, design and any special precautions for installation.


- Spread adhesive using required tools (see tool chart below).
  - Adhesive ridges will dissipate, and RA-Adhesive does not require back-rolling under normal circumstances.
- Install flooring per the instructions below dependent upon desired application method.
  - Tile products
    - Wait 10 minutes after adhesive is spread to build surface tack and reduce movement.
    - Working time is approximately 45 min under acceptable temperature and humidity conditions.
    - Use a hand roller and apply normal pressure to ensure a good bond.
    - Periodically lift flooring material to verify proper transfer of adhesive.

### PRECAUTIONARY NOTES:

- Do not wet mop the floor for 6 hours after the install is complete.
- Do not strip and finish the floor for 6 hours after the install is complete.
- Reseal lid when not in use to protect product.

## REQUIRED TOOLS AND COVERAGE

\*Trowel dimensions are width X depth X spacing. Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held.

Flooring	Tool* (images not to scale)		Estimated Coverage
Resilient Armour - 18" x 36" Panel for WorkShop (climate controlled)	1/16" x 1/32" x 1/32" (1.6mm x .8mm x .8mm) U Notch		220-260 sf/gal
Concrete conditions and surface will impact the absorption of Resilient Armour Adhesive coverage. It is recommended that a test area be performed to determine the absorption level of concrete substrate. Surfaces with rougher surface or texture will have a lower coverage rate, based on sf/gal rate.			

*It is the sole responsibility of the contractor/installer to determine the proper porosity of the subfloor, apply the proper amount of adhesive for the job conditions and ensure that all instructions, procedures and practices are strictly adhered to.*

## CLEANING INSTRUCTIONS

**While product is still wet:** use a damp cloth and water to remove.

**While product is still soft:** use adhesive remover/stripper, denatured alcohol or mineral spirits. Always check compatibility on a piece of scrap flooring.

See next page for Product Characteristics

## PRODUCT CHARACTERISTICS

<b>Product Classification</b>	Modified urethane (isocyanate free)
<b>Base Chemistry</b>	STPE polymer-based (Hybrid Propel®)
<b>Curing Method</b>	Moisture cure
<b>Appearance</b>	Off white
<b>Consistency</b>	Smooth, low viscosity liquid
<b>Application</b>	Easy troweling
<b>Flammability</b>	Non-flammable
<b>Freeze/Thaw</b>	Stable to 10°F (-12°C)
<b>Shelf Life</b>	1 year
<b>Moisture Control</b>	Protects flooring against unlimited moisture
<b>RH [ASTM F2170]</b>	No testing required (100%)
<b>pH</b>	No testing required (5-14)
<b>MVER [ASTM F1869]</b>	No testing required
<b>Open Time</b>	0 min (Sheet goods and stair treads); 10 min (Tile products)
<b>Dry Time</b>	N/A
<b>Working Time</b>	45 min
<b>Cure Time</b>	6 hrs
<b>Pot Life</b>	N/A
<b>Light Traffic</b>	3 hrs
<b>Heavy Traffic</b>	4 hrs
<b>Heavy Rolling Loads</b>	8 hrs
<b>Solvents</b>	None
<b>Isocyanates</b>	None
<b>VOC (g/L) - SCAQMD Rule#1168</b>	0.1
<b>LEED Points</b>	Contributes to low emitting materials
<b>Certifications</b>	Greenguard, FloorScore, CRI Green Label Plus
<b>IIC</b>	68 dB
<b>STC</b>	66 dB

\*IIC (delta) and STC (delta) ranges are flooring assembly specific based on third party testing and verification in a controlled environment. For any questions or further information, please contact Resilient Armour.

## STORAGE

This product should be stored at temperatures between 50-90°F (15-32° C). While this product is freeze-thaw stable, it is necessary to protect it from freezing. Freeze/thaw stable to 10°F (-12°C).

## CAUTION

DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

## WARRANTY INFORMATION

For warranty information, contact Technical Services at Resilient Armour. All written pre-installation and installation instructions must be strictly followed or the Resilient Armour warranty will be void. Warranty is serviced by Resilient Armour's manufacturing partner Taylor Adhesives.