

### **DESCRIPTION**

TAJ-U100 High Moisture Capable Wet Set Adhesive is one-part chemistry adhesive making it a faster, more install-friendly alternative to 2-part epoxy systems. Engineered for heavy rolling loads and challenging environments, TAJ-U100's waterproof design forms a robust moisture vapor barrier and can also take the punishment introduced by topical liquids.

### **APPROVED FLOORING TYPES**

LVT/LVP, Sheet goods (vinyl, homogeneous, heterogeneous, fiberglass, felt-backed), Rubber tile and sheet, Linoleum, WPC/WSC, Cork-backed hard surface, Cork flooring, Cork underlayment, VCT/VET, Stair treads (rubber and vinyl)

### **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)
- Fully secured cork underlayments
- Gypsum and lightweight concrete (primed with universal primer)
- 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]

### **SUBSTRATE PREPARATION**

- Follow flooring manufacturer's guidelines. Substrate must be prepared per ASTM F710 standards including, but not limited to the following:
- 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 on for 24 hours before, during and after installation. Failure to turn the heat on 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

TAJ-U100 may only be used as a wet-set adhesive. Follow flooring manufacturer's guidelines for layout, design, and any special precautions for installation.

1. Spread adhesive using required tools (see tool chart below).

- Adhesive ridges will dissipate, and TAJ-U100 does not require back-rolling under normal circumstances.

2. 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.

Sheet goods and stair treads

- Install flooring or stair treads immediately after adhesive is spread.
- Working time is approximately 45 min under acceptable temperature and humidity conditions.
- Periodically lift flooring material to verify proper transfer of adhesive.

3. Roll and cross roll floor with a 75-100 lbs. (34-45 kg) roller at the end of the installation to ensure proper transfer of adhesive.

- Wait a minimum of 1 hour, but no more than 2 hours, after the installation to roll and cross roll floor.

**PRECAUTIONARY NOTES:**

- *Wait 6 hours before heat welding sheet goods.*
- *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 Type - LVT/LVP, VCT/VET**

Trowel description, 1/16" x 1/32" x 1/32" U-Notch Trowel, Estimated Coverage = 220-260 sf/gal

- **Flooring Type - Sheet goods, Rubber tile and sheet, Linoleum, WPC/WSC, Cork- backed hard surface, Cork flooring, Cork underlayment, Stair treads (rubber and vinyl)**

Trowel description, 1/16" x 1/16" x 1/16" Square Notch Trowel, Estimated Coverage = 150-180 sf/gal

\*\*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 denatured alcohol, or mineral spirits. Always check compatibility on a piece of scrap flooring.



## TAJ-U100 High Moisture Capable Wet Set Adhesive

### **PRODUCT CHARACTERISTICS**

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

### **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.



## **TAJ-U100 High Moisture Capable Wet Set Adhesive**

### **WARRANTY INFORMATION**

For warranty information, call customer service at (888) 652-2111, visit us on the web at [www.tajflooring.com](http://www.tajflooring.com) or e-mail us at [info@tajflooring.com](mailto:info@tajflooring.com). TAJ Flooring's written pre-installation and installation instructions must be strictly followed, or the TAJ Flooring warranty will be void.



# TAJ-U100 High Moisture Capable Wet Set Adhesive

## Material Safety Data Sheet

### 1. IDENTIFICATION

#### TAJ-U100 High Moisture Capable Wet Set Adhesive

Recommended use of the chemical and restriction on use: Moisture barrier adhesive for installation of flooring materials over approved subfloor –all types of resilient flooring including vinyl, rubber, fiberglass, and polyolefin backed flooring. **Company:** TAJ Flooring, Inc., 740 Church Road, Elgin, IL, 60123, USA, (888)-652-2111

**Emergency Telephone Number:** (888) 652-2111

**Other Means of Identification**

**Chemical Family:** Modified Silane blend

### 2. HAZARDS IDENTIFICATION

*According to regulation 2012 OSHA Hazard Communication*

*Standard: 29 CFR Part 1910.1200*

#### Classification of the Product

No need for classification according to GHS criteria for this product.

#### Label Elements

This product does not require a hazard warning label in accordance with GHS criteria.

#### Hazards Not Otherwise Classified

None known if used according to instructions.

Irritation may occur when in contact with eyes and skin.

**Labeling of Special Preparations (GHS):** None required *According to Regulation 1994 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200*

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

*According to Regulation 1994 OSHA Hazard Communication*

*Standard: 29 CFR Part 1910.1200*

This product does not contain any components classified as hazardous under the referenced regulation.

CAS#	Content	Chemical Name
Trade Secret	35-55	Silylated Polyurethane Resin
Trade Secret	1-5	Plasticizer
1317-65-3	30-40	Calcium Carbonate
Trade Secret	1-5	Additives
25322-69-4	10-20	Polypropylene Glycol



## TAJ-U100 High Moisture Capable Wet Set Adhesive Material Safety Data Sheet

### **4. FIRST AID MEASURES**

**General Advice:** Upon contact, remove material from skin, eyes, and clothing. If irritation persists, seek medical attention.

**If Inhaled:** Remove individual to fresh air if needed.

**If on Skin:** Wash with mild soap and water.

**If in Eyes:** Open eyelids and flush with running water for at least 15 minutes.

**If Swallowed:** Do not induce vomiting. Seek medical help immediately.

**Most Important Symptoms and Effects, Both Acute and Delayed:** None expected due to non-classification of the product.

**Indication of Any Immediate Medical Attention and Special Treatment Needed:** *Note to physician* - Symptomatic Treatment

### **5. FIRE-FIGHTING MEASURES**

#### **Extinguishing Media**

Use water spray, foam, dry powder when needed.

**Special Hazards Arising from the Substance or Mixture** Material is a mixture of organic compounds. Compounds of carbon may arise during burning.

*Advice for fire-fighters:* Wear self-contained breathing apparatus and turn out gear. Use water to keep the containers cool.

#### **Further Information**

Dispose debris and contaminated clothing in accordance with regulations.

### **6. ACCIDENTAL RELEASE MEASURES**

**Further Accidental Release Measures:** Slip hazard when spilled.

**Personal Precautions Protective Equipment and Emergency Procedures:** Use personal protective clothing. Avoid contact with skin and eyes.

**Environmental Precautions:** Do not release spilled material into natural waters.

**Methods and Material for Containment and Cleaning Up:** Pick up with suitable absorbent material. Dispose of absorbed material in accordance with regulations. Spills should be contained, solidified, and placed in suitable containers for disposal.

### **7. HANDLING AND STORAGE**

**Precautions for Safe Handling:** Do not puncture. Keep out of the reach of children.

**Conditions for Safe Storage, including any Incompatibilities** Keep from freezing. Avoid extreme temperatures.



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### **8. EXPOSURE CONTROL/PERSONAL PROTECTION**

#### **Advice on System Design**

Maintain proper ventilation.

#### **Personal Protective Equipment:**

**Respiratory Protection:** NIOSH respirator if needed. Use local exhaust ventilation. Do not use closed air-circulating system.

**Skin Protection:** Chemical resistant gloves, apron, coveralls, and boots to prevent unnecessary contact.

**Eye Protection:** Safety glasses, goggles, or face shield

#### **General Safety and Hygiene Safety Measures:**

Wash hands and/or face after use. Launder contaminated clothing before re-use. Always use protective equipment to avoid direct contact.

### **9. PHYSICAL AND CHEMICAL PROPERTIES**

**Form:** Low viscosity liquid

**Odor:** Mild

**Odor Threshold:** No data

**Color:** Off white

**pH Value:** Not applicable

**Melting Point:** Not applicable

**Boiling Point:** No data

**Flash Point:** Not applicable

**Flammability:** Nonflammable

**Lower Explosion Limit:** Not applicable

**Upper Explosion Limit:** Not applicable

**Vapor Pressure:** Low

**Density:** 8.40 – 8.70 lbs. per gallon

**Relative Density:** 1.01 – 1.04 grams / cm<sup>3</sup>

**Vapor Density:** Low

**Partition Coefficient n-octanol/water (log Pow):** No data

**Self-Ignition Temperature:** Not Applicable

**Solubility in Water:** Insoluble

**Miscibility in Water:** Not miscible

**Evaporation Rate:** Low

**Other Information:** Moisture cure product. Product will start curing in the presence of moisture.



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### **10. STABILITY AND REACTIVITY**

**Reactivity:** Stable

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** None, product is stable

**Conditions to avoid:** Extreme temperatures

**Incompatible Materials:** Water. Product is a moisture curing material.

**Hazardous Decomposition Products:** None known