



## Problem Solver Premium Adhesive Specification Sheet

AAT's Problem Solver Premium is specially formulated to handle your toughest installation challenges. This firm setting, fast tacking adhesive is excellent for woven carpets, and carpets with stiff unitary backings or attached cushions. Problem Solver Premium is a safe, light colored, low odor, 0 VOC adhesive designed with the installer's needs in mind. Problem Solver is water resistant and non-flammable, and is the most versatile, strongest, trouble-free floor covering adhesive. The Problem Solver Premium is backed by a Ten Year Performance Warranty. This zero VOC adhesive is protected by the CleanGuard® two-stage antimicrobial. CleanGuard is a specifically formulated broad- spectrum, anti-microbial agent that protects our adhesives from microorganisms, such as mold or mildew, in both the wet and dry state

### Uses:

Problem Solver Premium is recommended for the following installations:

- Carpets: Woven Polypropylene (ActionBac®, hot melt, etc.) Latex Unitary, Urethane Foam-backed (Enhancer® I,II,III,IV and Durafoam), Rubber Backs, Woven and Needle-punch, Double Glue-Downs with approved carpet & cushion, Jute
- Resilient Flooring (Although this adhesive is formulated for carpet installations, because of its non-staining characteristics, it can be used to install the following.): felt backed sheet vinyl



**NOTE:** This adhesive is not recommended for pure vinyl backed sheet goods or carpets.

Problem Solver Premium may contribute to the LEED certification of projects in the following categories:

- IEQ Credit 4.1—Low Emitting Materials – Adhesives & Sealants
- IEQ Credit 4.3—Low Emitting Materials – Flooring Systems
- IEQ Credit 5—Regional Materials

### Sub-floor and Site Conditions:

Recommended Sub-floors ■ Concrete above, on or below grade ■ APA rated plywood underlayment ■ Properly prepared gypsum cement

Sub-floors on and below grade must be protected from ground moisture with a functioning and intact Class A vapor retarder that conforms to the requirements of the most current version of ASTM E-1745. This vapor retarder must be directly beneath, and in contact with, the slab. Concrete sub-floors must be properly prepared according to the practices detailed in the latest standard, ASTM F-710. Gypsum sub-floors must meet the requirements of the most current version of ASTM F-2419. All curing agents [topical and admix], adhesives, paints, varnishes, oils, waxes, dust, dirt and any other bond inhibiting substances must be removed. The removal of bond inhibiting substances must be by mechanical means: sanding, shot or bead blasting. Problem Solver Premium cannot be used if adhesive removers, solvent or chemical cleaners have been used.

The maximum moisture emission rate of the sub-floor cannot exceed 5lbs/1000 sq.ft./24 hours [ASTM F-1869], with a pH of 7.0- 9.0 [ASTM F-710], and a maximum *in situ* RH of 85% [ASTM F-2170]. Prior to the application of Problem Solver Premium, sub-floors must be tested in strict accordance to the most recent versions of ASTM F-1869 and F-2170. Both testing protocols must be performed in order to provide the most accurate view of the sub-floor's condition. Sub-floors of lightweight concrete must be tested in strict accordance to the most recent version of ASTM F-2170. The placement of calcium chloride kits and humidity probes must follow the ASTM standards for proper locations and the correct quantity of test sites. These and other tests may be performed by AAT in the event of a warranty claim.

All sub-floors must be flat and structurally sound. Smooth or glazed surfaces must be abraded. Repair all joints and cracks with latex-based portland cement underlayments. Never sand existing resilient flooring that could contain asbestos. Follow all Federal, State and Local regulations relating to the removal of in-place, asbestos containing material. Very porous sub-floors must be primed with AAT-570 Primer.

**NOTE:** Strip or plank wood flooring, particleboard and OSB sub-floors should be covered with an approved underlayment (minimum thickness of ¼"). Problem Solver Premium cannot be used if adhesive removers, solvent or chemical cleaners have been used. Before beginning installations with backing systems or over sub-floors not listed contact AAT's Technical Services for recommendations. AAT Technical Services can be reached at 1(800)228-4583 or by email at [techservice@aatglue.com](mailto:techservice@aatglue.com). It is the sole responsibility of the applicator of this product to determine the suitability and compatibility of this product for their intended use. *If the provided preparation and application instructions are not followed, DO NOT USE Problem Solver Premium.*

#### **Installation Recommendations:**

Typical trowels and approximate coverage: (depth x width x spacing)

**Woven polypropylene, woven:** 1/8" x 1/8" x 1/8" U notch, 100 sq. ft. /gal.

**Attached cushions:** 3/32" x 3/32" x 3/32" V notch, 125 sq. ft. /gal.

**Unitary and Double-Glue (carpet to cushion):** 1/8" x 1/8" x 1/16" U notch, 50 sq. ft./gal.

**Felt backed Sheet Vinyl:** 1/16" x 1/16" x 1/16" □ notch, 150 sq. ft./gal.

The building should be completely enclosed. All outside doors and windows should be properly installed with latching mechanisms in place. Adequate ventilation should be available. The HVAC system for the building should be operational and provide a consistent temperature of 65-85°F (air and sub-floor) and humidity levels should be between 40-65% for a minimum of 72 hours prior to the installation. These conditions must be maintained to ensure the long- term success and performance of the installation.

1. Flooring and adhesive should be acclimated to the job site conditions for a minimum of 24 hours prior to the installation.
2. Be familiar with the recommendations and any special instructions from the flooring manufacturer before beginning the installation. Follow the flooring manufacturer's specific recommendations regarding sub-floors and seam sealing.
3. Refer to the information above for specific information regarding sub-floor preparation and site conditions.
4. Spread the adhesive with the appropriate trowel as defined above. Allow the appropriate dwell or open time. Lay the carpet into the adhesive as to minimize bubbles and wrinkles.
5. Roll the flooring with a three-section roller [Carpet - 75lb. for direct glue and 35lb. double-glue; Sheet vinyl – 100lb.] to ensure adequate transfer. Wet adhesive transfer to the flooring must be 100%.
6. Roll the flooring "north to south" and "east to west" from center to edge forcing out air pockets and eliminating wrinkles.

**Specific Technical Data:**

- Base: SBR-resin emulsion
- Color: yellow-tan
- Flammability: Non-flammable
- Shelf Life: One year from date of manufacture in an unopened container
- Freeze-Thaw Stable: If frozen, allow the adhesive to thaw at room temperature. Do NOT stir or agitate while frozen. Stability and spread-ability can be reduced if frozen. For best results do not allow the adhesive to freeze.
- Clean-up: Remove wet adhesive with damp cloth (plain water). Use AAT-197 Adhesive Remover for dried adhesive.
- VOCs: 0 g/l (Calculated per Ca. Rule 1168); Solvent free
- Not recommended for exterior installations.

**NOTE:** We recommend installers follow the guidelines set forth in the latest version of the CRI's *Carpet Installation Standard - 104*. Before placing the carpet, the adhesive must be allowed an open or dwell time appropriate for the carpet backing, jobsite and sub-floor conditions. It is extremely important to maintain recommended notch depth, width and spacing. The proper notch depth is that which will produce adhesive ridges that affect a 100% transfer to both the substrate and the carpet backing to include the inner recesses of the texture of the back.





## Safety Data Sheet

Print Date: May 13, 2015

## 1. Identification

- **Product Name:** Problem Solver
- **Product Use:** Premium Floor Covering Adhesive
- **Manufacturer:** Advanced Adhesive Technologies, Inc.  
424 South Spencer Street  
Dalton, GA 30721  
800-228-4583
- **Emergency telephone number:** Chemtrec 1-800-424-9300

## 2. Hazard(s) identification

- **Classification of the substance or mixture**

*This product does not meet the criteria for classification as hazardous under the GHS and 29 CFR 1910.1200*

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA rating (scale 0 – 4)**

Health = 1  
Fire = 0  
Reactivity = 0



- **HMIS-rating (scale 0 – 4)**

Health = 1  
Fire = 0  
Physical Hazard = 0

## 3. Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Adhesive
- **Dangerous components:**  
No hazardous/reportable components

Cas # 7732-18-5	Water	31-48%
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- **Trade name:** Problem Solver

## 4. First-aid measures

- **Description of first aid measures**
- **After inhalation:** Overexposure, remove to fresh air and seek medical attention.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**  
No further relevant information available

## 5. Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.  
Use fire fighting measures that suit the environment.
- **Special hazards arising from the substances or mixture:** Dried solids can burn and release toxic fumes and vapors.
- **Advice for firefighters**
- **Protective equipment:** Protective clothing and respiratory protective device.

## 6. Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation
- **Environmental precautions:** Dilute with water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust)  
Wash area thoroughly with water.  
Dispose of contaminated material as waste in accordance with federal state and local regulations.  
Ensure adequate ventilation.
- **Reference to other sections**  
See section 7 for information on safe handling  
See section 8 for information on personal protection equipment  
See section 13 for disposal information

## 7. Handling and storage

- **Precautions for safe handling**  
Avoid prolonged or repeated contact with skin.  
Avoid contact with eyes.  
Wash thoroughly after handling.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by store rooms and receptacles:**  
Store above 40 °F. Freeze-thaw stable up to five cycles at 20 °F.
- **Information about storage in one common storage facility:** Not required
- **Further information about storage conditions:** Protect product from freezing.
- **Specific end use(s)** No further relevant information available.

## 8. Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**  
This product does not contain any relevant quantities of materials with critical values that have to monitor at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment (see listings below)**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not necessary if room is well-ventilated
- **Protection of hands:** Protective gloves  
The glove material has to be impermeable and resistant to the product/the substance/ the preparation.
- **Material of gloves:** natural rubber
- **Eye protection:** Safety glasses with side shields
- **Body protection:** Protective work clothing

## 9. Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

Form:	Heavy paste
Color:	Tan to light beige
- **Odor:** Resinous
- **Odour threshold:** Not determined
- **pH-value at 20°C (68°F):** 9.3-10.8
- **Change in condition**

Melting point:	Undetermined
Boiling point:	212°F (100°C)
- **Flash point:** Not applicable
- **Flammability (solid, gaseous):** Not applicable
- **Ignition temperature:**

Decomposition temperature:	Not determined
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- **Auto igniting:** Product is not self igniting
- **Danger of explosion:** Product does not present an explosion hazard.
- **Flammable limits:**

Lower:	Not determined
Upper:	Not determined
- **Specific gravity at 20°C (68°F):** 1.02 – 1.26
- **Relative density:** Not determined
- **Vapour density:** Not determined
- **Evaporation rate:** Slower than ether
- **Solubility in/Miscibility with**

Water:	Miscible in water, difficult to mix
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- **Solvent content:**
  - Organic solvents:** 0.0%
  - Water:** 31-48%
- **Other information:** California VOC Compliance:  
Solvent Free Product  
SCAQMD Rule 1168: VOC compliant

## 10. Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition/conditions to be avoided:** No decomposition if used according to specifications
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Carbon monoxide and carbon dioxide

## 11. Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - **on the skin:** May irritate the skin
  - **on the eye:** May irritate the eye
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories:**

• <b>IARC (International Agency for Research on Cancer)</b>
None of the ingredients is listed
• <b>NTP (National Toxicology Program)</b>
None of the ingredients is listed
• <b>OSHA-Ca (Occupational Safety &amp; Health Administrations)</b>
None of the ingredients is listed

## 12. Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.
- **Other adverse effects:** No further relevant information available.

## 13. Disposal Considerations

- **Waste treatment methods**
- **Recommendation:** Comply with current regulations
- **Uncleaned packaging:**
- **Recommendation:** Comply with current regulations.

## 14. Transport information

• <b>Un-Number</b>	
• <b>DOT, ADR, AND, IMDG, IATA</b>	Not regulated
• <b>UN proper shipping name</b>	
• <b>DOT, ADR, AND, IMDG, IATA</b>	Not regulated
• <b>Transport Hazard class (es)</b>	
• <b>DOT, ADR, AND, IMDG, IATA</b>	
• <b>Class</b>	Not regulated
• <b>Packing group</b>	
• <b>DOT, ADR, IMDG, IATA</b>	Not regulated
• <b>Environmental hazards:</b>	Not applicable
• <b>Special precautions for user</b>	Not applicable
• <b>Transport in bulk according to Annex II of MARPOL73/45 and the IBC Code</b>	Not applicable
• <b>Transport/Additional information:</b>	DOT, ADR, IMDG, IATA – Not regulated in transport. Not dangerous according to the above specifications.
• <b>UN “Model Regulation”:</b>	

## 15. Regulatory information

- **Safety, health and environmental regulation/legislation specific for the substance or mixture**

- **Sara**

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed

- **TSCA (Toxic Substances Control Act):**

All components of this product are on the TSCA Inventory or are exempt from TSCA Inventory requirements,

- **Proposition 65**

- **Chemicals known to cause cancer:**

None of the ingredients is listed

- **Chemicals known to cause reproductive toxicity:**

None of the ingredients is listed

- **(DSL) Canada Domestic Substance List**

All components of this product are on the DSL (Canada Domestic Substance list) or are exempt from SDL requirements

- **Carcinogenicity categories**

<b>• EPA (Environmental Protection Agency)</b>
None of the ingredients is listed
<b>• TLV (Threshold Limit Value established by ACHIH)</b>
None of the ingredients is listed
<b>• NIOSH-Ca (National Institute for Occupational Safety and Health)</b>
None of the ingredients is listed

## 16. Other information

Although the information and recommendations set forth in the SDS are presents in good faith and are believed to be correct as of the date of this SDS, AAT makes not representations as to the completeness or accuracy thereof. Information is supplied on the condition that the persons receiving and using it will make their own determination as to the suitability for their purpose prior to use. In no event will AAT or any affiliate thereof be responsible for damages of any nature whatsoever resulting from the use or reliance on the information set forth in the SDS.

**Department issuing SDS:** Environment protection department

**Creation date:** May 1, 2015