



PolyStone™ Tile Installation Instructions

Congratulations on your new purchase of VillaStone™ Tiles.
You have purchased one of the finest flooring products.
Please read all installation instructions prior to use.

I. ABOUT VillaStone™ LUXURY POLYSTONE™ TILE

VillaStone™, using Polystone™ Technology with real marble and polymer construction for secure and easy installation over wood, concrete or well adhered existing vinyl, provides flexibility and dimensional stability not found in other resilient tiles. This feature permits fast, easy installation over a wide variety of sub-floor surfaces.

II. SAFETY

It is your responsibility as a flooring installer to adhere to all safety precautions on the job site. See following safety precautions noted below.

A. Follow the printed safety precautions on all products being used. Read the proper MATERIAL SAFETY DATA SHEETS (MSDS) for information that may be required for products which may contain hazardous materials. VillaStone™ does not qualify for MSDS as it is classified as an “article”. MSDS are available for the adhesive and grout. You may obtain an MSDS for these products by calling or writing to your Cryntel® distributor or visit our web site at www.cryntel.com.

B. SAFETY PRECAUTIONS SHOULD BE TAKEN WHEN PREPARING SUB-FLOORS.

1. WOOD AND CONCRETE

Avoid creating excess dust when sanding or grinding wood or concrete subfloors. Dust can be harmful to your health. Note the precautions listed below when grinding concrete or sawing wood.

- a. Use the correctly designed NIOSH dust mask and eye protection.
- b. Power tools should be used with a dust collection system.
- c. Avoid contact with skin and eyes. In case of irritation, flush eyes and/or skin with water for a minimum of 15 minutes.

2. RESILIENT FLOORING

WARNING: PRE-EXISTING FLOORING OR PRE-EXISTING ADHESIVE MAY CONTAIN ASBESTOS.

Do not sand or chip in any way pre-existing flooring that may contain asbestos. Also do not sand or chip any adhesives, lining, or backing that may contain asbestos. If the above noted products do contain asbestos avoid creating any dust or debris as asbestos is a cancer causing agent. If unsure of existing flooring material and content contact RFCI (see address below). It is recommended to install over the top of existing vinyl flooring. Unless you are positively certain that the product is a non-asbestos containing material, then you must presume it contains asbestos. It is advisable to install over the top of pre-existing flooring, as long as the pre-existing flooring is well secured to the subfloor.

RFCI Recommended Work Practices are subject to change, contact RFCI for additional information.

115 Broad Street
LaGrange, GA 30240
www.rfci.com

C. MOLD AND/OR MILDEW

If mold or mildew exists the problem must be corrected prior to installing new floor. If mold or mildew is detected most likely there is an excessive moisture problem. Correct the moisture problem prior to the new installation. Follow all proper EPA guidelines for removing mold and/or mildew OR you can contact a professional remediation company.

D. Work areas should be free of obstacles, such as tools, loose tiles, etc; Dispose of excess materials immediately eliminating any possibility for slipping or falling.

E. Read all safety precautions for using any and all power tools.

- F. **CAUTION:** If using mineral spirits please note mineral spirits is flammable and can be slippery. Read all precautions on label of container.
- G. When needed use appropriate safety protection: safety glasses, NIOSH-designed dust masks, kneepads, gloves, etc.

III. VillaStone™ **PRODUCT INFORMATION:**

- A. Store cartons on a flat dry surface no more than 15 cartons high. Cartons must be stored in a dry area and stacked at least 4" above the ground.
- B. Acclimate tiles and adhesives in the room where installation will occur at a temperature between 65°F to 80°F for 48 hours prior to, during, and 48 hours after installation. Always maintain a room temperature between 60°F and 95° after installation.
- C. Do not install flooring where the subfloor temperature is higher than 80°F or below 65°.
- D. During installation mix tiles from different cartons.

IV. **RECOMMENDED USE:**

VillaStone™ is recommended for Residential and Light Commercial Interior use over wood, concrete or well secured vinyl.

- A. Residential flooring: Use on all interior floor areas of the home except walls, countertops, ceilings and wet areas like shower walls and shower floors.
- B. Light commercial use, refers to locations with limited foot traffic such as property management offices, or small retail shops. Light commercial would include commercial settings such as i.e.: banks, beauty shops and high traffic areas. Consult Cryntel customer service with questions regarding flooring qualifications of light commercial installation.
- C. Do not install in exterior or wet areas such as patios or showers.
- D. Do not install in **sunrooms**.
- E. Do not install any product with noticeable defects. See Claims Section

V. **INSTALLATION MATERIALS AND REQUIRED ACCESSORIES:**

Use Cryntel® Millennium™ Pressure Sensitive Vinyl Tile and Plank Adhesive. Follow adhesives manufacturers instructions for proper installation procedure, including trowel size. **DO NOT USE ANY ADHESIVES** other than what is recommended above. ***Allow adhesive to set until dry to the touch prior to installation of tile.*** Do not use wet lay method, if wet layed method is used warranty will be void. Adhesive set up time will vary depending on temperature, humidity and geographical location. For grouting installation, ONLY Use Cryntel PolyStone™/ Millennium Grout. Tiles can be installed either edge to edge, or spaced with grout. The use of any grout or adhesive which is not specifically recommended herein will void the warranty.

VI. **PREPARATION FOR FLOORING INSTALLATION:**

A) Installation Tools:

- For porous subfloors and non porous subfloors: 1/16" x 1/16" x 1/16" square notch trowel
- 100-pound, three-section steel roller
- Rubber Grout Float
- Spacers for grouted applications
- 18" vinyl cutter and/or Utility Knife
- 3 Section extendable floor roller for rolling seams
- Cryntel® Millennium™ adhesive made for vinyl backed floor tile (See Section V)

B) For Interior Use Only:

- DO NOT install below grade unless moisture test is conducted (See Section VI D)
- DO NOT install over sealed subfloor
- DO NOT install in exterior areas
- DO NOT install over unsuitable subfloors such as Lauan plywood, particle board, any type of cement backer board, oriented strand board, or any other subfloor materials not approved. Use of these types of products will void the VillaStone™ warranty by Cryntel.
- DO NOT install over subfloors where moisture exists

C) Sub-floor Recommendations:

ALWAYS USE latex floor primer on all **porous surfaces** such as wood or concrete

prior to installation. Do not use fans to speed up the dry time.

NEVER USE solvent type sub-floor primers, fillers or levelers. Do not use latex or oil **base paint primers**, or any oil based primers.

- VillaStone™ can be installed over dry concrete, existing wood floors, plywood and smooth well-adhered sheet vinyl or plank. Surfaces(s) must be clean, (free of dirt, dust, grease or other foreign substances) smooth, structurally sound and moisture free. Subfloor should be leveled to 3/16" within a 10' radius or 1/16" within 1' radius. Fill all low areas with a latex patching compound and let cure for 24-36 hours. High spots should be ground, chipped or sanded to a level surface. Remove all dust and debris (follow all safety precautions in section II).

Sub-Floor Materials	Instructions	Notes
Wood	Minimum 1" thick sub-floor with 1/8" gap around perimeter. If sub-floor is minimum 1" thick it is acceptable to use 1/4" approved sub-floor underlayment.	Sub-floor must be free of movement, approved underlayment must be screwed into sub-floor and not stapled. (Must counter-sink all screws).
Concrete	On, below or above grade	Must be moisture free – see "Concrete Sub-floors"
Underlayment	Non-Approved Underlayment: 1. Luan plywood 2. Particle board 3. cork 4. Mahogany 5. OSB & OFB 6. Cement backer board 7. Any underlayment panel approved as APA underlayment may be used.	If unsure please contact Cryntel customer service department for written approval.
Resilient	See Vinyl Sub-floors section	

D) Concrete Sub-floors:

Always determine if moisture is present before beginning installation. Your dealer can assist with testing procedure(s). If moisture exists in slab you must correct the problem and apply a moisture barrier (suggested by dealer) before installing tile. New concrete sub-floors must be sufficiently cured prior to installation. On or below grade concrete must be absent of hydrostatic pressure, moisture or alkalinity. The ph level of the concrete must be between 5 and 9, and the moisture level of concrete must be below 3 lbs./1000 sq. ft./24 hours (1.36 kg/92.9m²/24 hours) as determined by a calcium chloride test according to ASTM F-1869 test method.

The selling Dealer and Manufacturer are not responsible for installation of VillaStone™ over:

1. Any subfloor containing moisture.
2. Concrete slabs containing anti-freeze, chemicals, admixtures, quick dry mix or curing compounds which are hygroscopic, are NOT ACCEPTABLE.
3. Do Not Install over previously sealed subfloors. First, strip or cover with sheet vinyl or other approved underlayment.
4. Radiant heated sub-floors where surface temperatures do not exceed 80°F (26.67 degrees C) and above.

E) Wood Underlayment:

Use APA registered underlayment grade plywood with fully sanded face. Underlayment board, such as plywood and other suitable sub-floor should be underlayment grade minimum 1/2" thick and have 1/8" gap around perimeter. If subfloor is at least 1" thick it is acceptable to use an underlayment grade minimum of

1/4" thick. Reminder, always apply tile to the smooth side of the underlayment material making sure that the underlayment sub-floor is securely fastened with countersink screws.

- Level and smooth the sub-floor with latex based product that is recommended by your dealer. ALWAYS USE latex floor primer on all **porous surfaces** such as wood or concrete prior to installation. NEVER USE solvent type sub-floor primers, fillers or levelers. Do not use latex or oil **base paint primers**, or any oil based primers.
- Do not use fans to speed up dry time.

NOTE: Do not install over these unsuitable subfloors or WARRANTY WILL BE VOID:

- * Any underlayment panel approved as APA underlayment may be used.
- Lauan plywood
- Particle board
- Oriented strand board, Ultra layment
- Cement backer board
- Cork

Cryntel does not warrant VillaStone™ installed over these types of panels.

F) Vinyl Sub-floors:

Floor covering must be tightly secured and free of wax or urethane. Installing over existing floor coverings such as sheet vinyl or vinyl tile, make sure surface is clean and stripped of all dirt and liquid coatings such as Mop 'n Glo; and the floor covering is completely and tightly secured in place. Do not install over soft or cushioned vinyl flooring. DO NOT use latex floor primer on existing vinyl tile, sheet vinyl or vinyl plank.

G) Existing Stone or Ceramic Tile:

Floor prep requires the application of Ardex Feather Finish self-drying, cement based finishing underlayment or equivalent to the entire floor. Must follow all manufacturer installation procedures.

VII. ADHESIVES:

Adhesive Installation using a trowel: Spread Cryntel® Millennium™ pressure sensitive adhesive using notched trowel size per guidelines previously noted. Follow adhesive manufacturers instructions for proper installation procedures. Allow adhesive to set until dry to the touch, then immediately install tile. Do not use fans to speed up dry time.

Use: Cryntel® Millennium™ Adhesive is for use with Cryntel Advantx Tile and Plank, VillaStone Tile, Solutions Tile and Plank, Simplicity Tile, VillaPlank and Designer Plank flooring over all approved subfloors including dry concrete on all grade levels, wood underlayment and smooth, noncushioned resilient flooring that is fully adhered and securely bonded.

Subfloor Preparation: All substrates must be structurally sound, dry, solid and stable. Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. Concrete slabs exceeding 3 lbs. per 1000 sq. ft. (1.36 kg) MVER according to ASTM F1869 and 75% Relative Humidity according to ASTM F2170 must be treated prior to the installation.

Acclimation and Application:

Condition adhesive, tile, other installation materials and subfloor at 65°F to 85°F (18°C to 29°C) for 48 hours prior to, during and 48 hours after installation. Cryntel® Millennium™ Adhesive must be spread uniformly with the recommended trowel (see Coverage information below). Proper adhesive application is critical. Excessive amounts of adhesive applied with an improper trowel will delay drying time. Insufficient coverage (normally caused by worn notches on adhesive trowels) will prevent proper adhesion or bond to the tile. Allow adhesive to dry to a tack, approximately 45 to 60 minutes depending on humidity and subfloor porosity. The adhesive will turn from off-white to clear when tacky dry and will not transfer to the

finger when firmly touched. Do not use fans to accelerate adhesive drying time. Flooring must be installed within 2 hours of applying the adhesive. Position flooring at a low angle into adhesive and press firmly without sliding. Immediately after installation, roll flooring diagonally to tile joints in both directions with a 100-lb. (45 kg), three-section steel roller. Additionally roll all tile joints with hand-held seam roller, prior to installing grout, and under cabinet bases.

Cleanup: Wet adhesive may be removed with a damp cloth; dry adhesive may be removed with a cloth dampened with mineral spirits. Do not reuse adhesive container. Dispose of in accordance with local regulations. **CAUTION:** Solvents are hazardous materials and should be used with caution, in accordance with the manufacturer's label instructions.

Flooring Type.....Advantx, VillaStone, Simplicity, VillaPlank, Advantx Plank, Designer Plank

Mandatory Trowel..... 1/16" x 1/16" x 1/16" Square Notch

Approximate Coverage..... 150 sq. ft. per gallon (14 m² per 3,78 L)

Flooring Type Solutions Tile and Plank Trowel..... 1/32" x 1/16" x 1/32" U-Notch

Approximate Coverage...225–250 sq. ft. sq. ft. per gallon (20,9-23,2 m² per 3,78 L)

Shelf Life: One year if original container is not opened. Store between 70° - 85° degrees.

Notice: Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FOURTY-FIVE (45) DAYS FROM DATE IT WAS INSTALLED, OR REASONABLY SHOULD HAVE BEEN DISCOVERED.

NONFLAMMABLE / NONCOMBUSTIBLE NOTICE: The seller makes no representation, express or implied, with respect to this adhesive in conjunction with any product other than seller's products referred to herein. Installation or service failures due to excessive moisture, vapor, or alkali through concrete sub-floors are not the responsibility of Cryntel Enterprises, Ltd., and it does not assume liability for such failures.

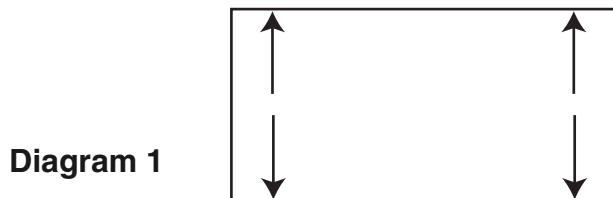
PROTECT FROM FREEZING

VIII. INSTALLATION:

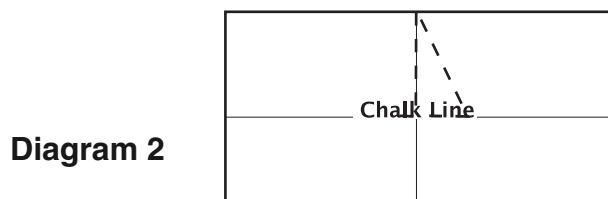
A) LAYOUT OF ROOM:

Measure and Mark Room: Find center point of room and draw a center line using a suitable straight edge or chalk line.

1. Measure wall to wall distance at each end of the room and find center of the wall at each end. See Diagram 1.

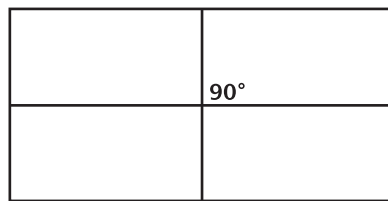


2. Attach a chalk line at the center of the floor at each end. See Diagram 2.
3. Stretch it tightly. Give the string a sharp snap to mark a chalk line on the floor.



4. Find the center of the chalk line. Make another chalk line at right angles to the first, following the above procedure. See Diagram 2 and 3.

Diagram 3

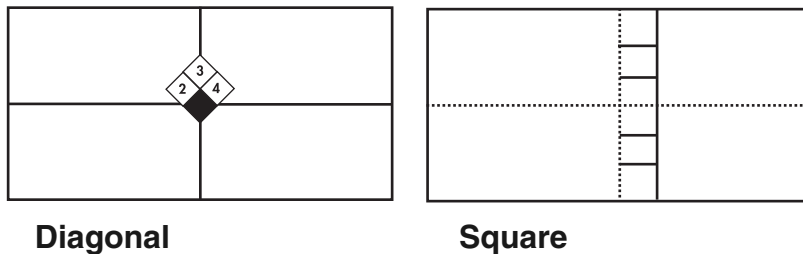


Centerline must be square to 1st chalk line.

B) SQUARE OR DIAGONAL INSTALLATION:

Make a dry layout to determine the size of the last piece at the wall. If last piece of tile is too small reposition the chalk line to create a large piece. Lay a row of loose tiles along the chalk line, arranging the tile so that the space between the last tile and the wall is equal on each side. Make sure the space is at least half a tile for best appearance.

- Diagonal Installation: Follow diagrams 1-2. When installing on a diagonal, lay the first tile in the exact center where the four (4) chalk lines meet. The four (4) tips/corners of the tile will touch and be perfectly centered on the four (4) chalk lines.
- Square Installation: Follow diagram 1-2, pyramid tiles as shown.



C) EDGE TO EDGE INSTALLATION:

Carefully place the tile at the intersection of the two chalk lines. Line up tiles so the edge of the tiles are aligned directly on both chalk lines. They should be positioned as close as possible to adjoining tile. Tile will bond on contact with adhesive so it must be accurately positioned. Continue laying tiles in step pattern as shown. For professional finished stone look, apply small amount of grout between each tile to fill in seams.

D) GROUTED FLOOR LAYOUT:

Layout floor as noted in Section B, square or diagonal installation, however when doing dry layout remember to allow the desired grout line spacing between each tile.
For grouting see next section.

NOTES:

- Must use laytex primer on all porous sub-floors
- Allow adhesive to set dry to the touch prior to installation of tile
- Do not allow tiles to set in adhesive for longer than 1/2 hour, you must immediately roll with a 100 lb. 3 section steel roller. You must also roll all **grout joints or seams with 3 section hand roller** or hand-held j roller, applying adequate pressure to ensure proper bond.

CUTTING TILES: Use a utility knife to score the top surface and snap tile, or use optional cutter, for odd shapes and curves around doors use a coping saw or hack saw. Proper placement of the first tile is key to a successful installation.

E) GROUTED FLOOR INSTALLATION:

- When installing grouted floors, work in smaller sections to keep consistent grout line and keep the installation running straight. Allow no more than 1/4 inch grout line space between tiles. Use spacers to keep grout line consistent. After installation is complete, grout floor using PolyStone™ or Millennium™ Premixed Grout only! Follow instructions on the PolyStone or Millennium grout label. Remove spacers prior to grouting.
 - PolyStone or Millennium Premixed Grout MUST CURE FOR FIVE (5) DAYS for stain repellent feature to be effective. The grout must cure for five (5) hours before walking on tiled floor.
 - Tiles must be grouted using PolyStone™ or Millennium™ Premixed Grout. This exclusive premixed acrylic grout is designed for high flexible strength and adhesion to the edge of the tile. This feature provides durability to resist cracking from ambient temperatures and normal sub-floor movement and is stain resistant. Traditional cement grouts are not recommended and will not perform properly and will void the warranty.
- 1) Tools and Equipment:
- Soft rubber float
 - Professional Nylon Sponge ONLY
 - Clean water
 - Rubber gloves
 - Safety glasses
 - Spacers for grouted installation

Hard grout floats, soft sponges, and ceramic grout sponges are not recommended because they tend to pull the grout out of the joint.

2) Grouting Preparation

- Roll the floor again just before grouting and check to make sure all edges are tightly seated in the setting adhesive.
- The joints must be clean and dry.
- Remove any adhesive smears from the surface and edges of the tile with mineral spirits before grouting. Use mineral spirits sparingly. Apply a small amount to a clean cloth and gently rub. Do Not apply mineral spirits directly on the floor. Remember that mineral spirits is flammable. Read all precautions on mineral spirits container.

3) Grout Application

- Start grouting floors at the far end of the room and work toward the entrance. Follow instructions on the PolyStone/Millennium Grout container and separate instruction sheet included in the carton. Grout small areas (4 sq. ft.) at any one time, and immediately remove grout and clean tile.

APPLIANCES – When installing or re-installing appliances make sure to use hard board to roll appliances on, including stoves, refrigerators, dishwashers, ice makers, etc., for protection on the newly installed tile. Additionally, place heavy gauge card board over entire surface area as protection for workers, painters, electricians, etc., if work is still being completed in home or apartment.

NOTE: The use of felt protectors must also be used for chairs, tables, heavy objects, or the warranty will be void.

IX. CARE AND MAINTENANCE OF VillaStone™ FLOORING:

DO'S

- Dust mop, vacuum or sweep regularly. Use soft bristle attachments
- Use vinyl cleaner regularly (recommended by dealer)
- Use vinyl floor finish as needed (recommended by dealer)

- Use the appropriate sized swiveling casters on mobile appliances or heavy furniture. They should be 2" in diameter with non staining hard rubber treads at least ¾" wide.
- Wipe up spills promptly with a damp cloth or mop
- Use carpet flat glides under all furniture legs. Replace small, narrow metal or domed glides with glides where the flat side is what makes contact with the floor.
- Place mats at outside entrances to prevent dirt and soil from being tracked inside
- Make sure pets have nails clipped regularly

DON'TS

- Do not use solvent (oil) based products to clean or maintain flooring
- Do not clean with soap and water. Household soap leaves a film and attracts dirt
Use cleaners recommended for no-wax vinyl floors
- Do not drag or slide heavy objects across the floor
- Do not use hard bristle brooms or use a vacuum with a beater brush.
They can scratch the surface of the tile.
- Do not use ball shaped casters

GENERAL WARRANTY:

Manufacturer warrants all 1st quality VillaStone™ flooring against manufacturing defects, excluding shine and surface wear-thru, when used for it's intended purpose(s); residential or *light commercial interior floor use only; and according to the printed instructions for (1) one year from date of purchase by original purchaser. Damage from pets will not be warranted.

NOTE: Claims will not be excepted if flooring is removed before the manufacturer has the opportunity to perform an inspection.

LIFETIME LIMITED RESIDENTIAL WEAR-THRU WARRANTY / 6 YEAR LIMITED LIGHT COMMERCIAL – Manufacturer's surface wear-thru warranty is limited to normal residential or * light commercial interior use on dry interior floors by original purchaser. Guarantee is limited to the wear layer and worn area only, excluding the finish and shine, if maintained and installed according to the printed instructions and is not guaranteed for wet areas such as patios, etc. For technical information or assistance call your local distributor or contact Cryntel at 800-766-1043. All other guarantees, implied or otherwise, limited to one (1) year from date of purchase, FOR COST OF PRODUCT ONLY, by original purchaser.

- * Light commercial refers to locations with limited foot traffic such as property management offices or small retail shops and does not include heavy commercial settings i.e. banks, beauty shops and other high traffic areas.

Products: Cryntel® warrants first quality VillaStone™ for one year from date of purchase against manufacturing defects.

Installation: Cryntel® does not warrant installation workmanship where errors have occurred due to improper site preparation, improper subfloor preparation, improper adhesive use, improper acclimation or transportation to job site. Installation errors should be addressed to the installer. Only use an experienced installer or installation company that demonstrates expertise and has commercial/residential expertise in installing commercial or residential floors.

Cryntel will not pay labor cost or replace material that was visibly defective prior to installation.

PROVISIONS:

1. Within One Year: Claim must be reported to Cryntel within one year from date of purchase in writing and is determined by Cryntel to be defective. Cryntel will replace or repair only the defective material with new or similar grade material and pay reasonable labor cost to be determined by Cryntel.
2. Within Two Years: Claim must be reported to Cryntel within two years from date of purchase in writing and is determined by Cryntel to be defective. Cryntel will replace or repair only the defective material with new or similar grade material and pay 50% labor cost.
3. Within Three Years: Claim must be reported to Cryntel within three years from date of purchase in writing and is determined by Cryntel to be defective. Cryntel will replace only the defective material with new or similar grade material and no labor cost.

What is not included – not covered by warranty program:

- Defective or poor workmanship
- Color or shade variations from photos, samples, display boards or previously purchased products
- Discoloration from chemicals used by purchaser of floor or discoloration from UV exposure
- Indentations from: High heels or spiked shoes; Scuffing from shoes; Heavy loaded rolling carts; Furniture not using proper floor protectors; cuts or gouges
- Improper use of adhesive-applied incorrectly or not following adhesive manufacturer's installation instructions
- Excessive moisture, alkaline, or hydrostatic pressure from existing floor
- Improper use by home owner or purchaser of floor
- Cryntel excludes any liability for lost profits or any other indirect, special or consequential damages.

The remedies contained herein are the only remedies available for breach of this warranty.

MILLENNIUM™

PHTHALATE FREE ADHESIVE
ADHESIVO SIN FTALATO

STOP AND READ

Before you begin installation of Tile or Plank.

PARE Y LEA

Antes de comenzar la instalación de las baldosas o planchas.

Trowel size:

**1/16" x 1/16" x 1/16" square notch
for porous and non-porous applications.**

Llana de dientes:

Con muesca cuadrada 1,6 x 1,6 x 1,6mm para aplicaciones porosas o no porosas.

FLASH ADHESIVE UNTIL IT IS DRY TO THE TOUCH **DO NOT SET WET!**

Aireé el adhesivo hasta que esté seco al tacto
No lo coloque mojado!

**Only Use Cryntel® Millennium™ Adhesive
with the following floor products:**

Uselo con los siguientes pisos Cryntel®:

- **Advantx™ Tile and Plank**
- **VillaStone™ Tile**
- **Simplicity™ Tile**
- **VillaPlank™**
- **Designer Plank™**

Trowel size for Solutions™ Tile and Plank only:
1/32" x 1/16" x 1/32" U-Notch porous and non porous

MILLENNIUM™

DESCRIPTION: Crytel Millennium Adhesive is a high-strength, low-odor, pressure-sensitive adhesive that provides a high, aggressive initial tack and exceptional bond strength.

USE: Crytel® Millennium™ Adhesive is for use with Crytel Advantx, VillaStone, Solutions, Simplicity, VillaPlank and Designer Plank flooring over all approved subfloors including dry concrete on all grade levels, wood underlayment and smooth, noncushioned resilient flooring that is fully adhered and securely bonded.

SUBFLOOR PREPARATION: All substrates must be structurally sound, dry, solid and stable. Substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, old adhesive residues, and any other substance or condition that may prevent or reduce adhesion. Concrete slabs exceeding 5 lbs. (1.36 kg) MVER according to ASTM F1869 and 80% RH according to ASTM F2170 must be treated prior to the installation.

APPLICATION: Condition adhesive, tile, other installation materials and subfloor at 65°F to 85°F (18°C to 29°C) for 48 hours prior to, during and 48 hours after installation. Crytel Millennium Adhesive must be spread uniformly with the recommended trowel (see Coverage Chart below). Proper adhesive application is critical. Excessive amounts of adhesive applied with an improper trowel will delay drying time. Insufficient coverage (normally caused by worn notches on adhesive trowels) will prevent proper adhesion or bond to the tile. Allow adhesive to dry to a tack, approximately 45 to 60 minutes depending on humidity and subfloor porosity. The adhesive will turn from off-white to clear when tacky dry and will not transfer to the finger when firmly touched. Do not use fans to accelerate adhesive drying time. Flooring must be installed within 2 hours of applying the adhesive. Position flooring at a low angle into adhesive and press firmly without sliding. Immediately after installation, roll flooring diagonally to tile joints in both directions with a 100-lb. (45 kg), three-section steel roller. Refer to the Installation Manual for complete and detailed instructions.

CLEANUP: Wet adhesive may be removed with a damp cloth; dry adhesive may be removed with a cloth dampened with mineral spirits. Do not reuse container. Dispose of in accordance with local regulations.

CAUTION: Solvents are hazardous materials and should be used with caution, in accordance with the manufacturer's label instructions.

Flooring Type.....Advantx Tile, VillaStone Tile, Solutions Tile, Simplicity Tile, Advantx Plank, VillaPlank, Designer Plank
Recommended Trowel.....1/16" x 1/16" x 1/16" Square Notch

Approximate Coverage..... 150 sq. ft. per gallon (14 m2 per 3,78 L)

Solutions Trowel Size Only...1/32" x 1/16" x 1/32" U-Notch/Approx. Coverage...225-250 sq. ft. gallon (20,9-23,2 m2 per 3,78 L)

SHELF LIFE: One year if original container is not opened. Store at room temperature.

NOTICE: Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection there with.

ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FOURTY-FIVE (45) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.

NONFLAMMABLE / NONCOMBUSTIBLE NOTICE: The seller makes no representation, express or implied, with respect to this adhesive in conjunction with any product other than seller's products referred to herein. Installation or service failures due to excessive moisture, vapor, or alkali through concrete subfloors are not the responsibility of Crytel Enterprises, Ltd., and it does not assume liability for such failures.

PROTECT FROM FREEZING

Manufactured for Crytel, Crytel Enterprises, Hollywood, FL 33020

CAUTION! IRRITATING TO THE EYES. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION.

CONTENTS – INGREDIENTS: Polymer dispersion (CAS# Unknown /Proprietary), Water (CAS# 7732-18-5), Acrylic polymer (CAS# 31069-81-5), Sodium hydroxide (CAS# 1310-73-2), Petroleum distillate (CAS# 64742-46-7).

Contents partially unknown .

HANDLING PROCEDURES – Avoid getting this material into contact with your skin and eyes. Store in a cool, dry, well-ventilated area.

EMERGENCY AND FIRST AID TREATMENT –

EYES: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists, get medical attention .

SKIN: Flush with large amounts of water. **INHALATION:** Immediately remove the affected person to fresh air.

INGESTION: Flush out mouth with water. If ingestion of a large amount does occur, seek medical attention.

Do not induce vomiting . **KEEP OUT OF THE REACH OF CHILDREN!**

WARNING! This product contains a chemical known to the state of California to cause cancer. Not regulated under WHMIS.

BEFORE USE, CAREFULLY READ ALL SAFETY INSTRUCTIONS ON THIS CONTAINER AND ON THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED AT www.mapei.com. IN THE EVENT OF A CHEMICAL EMERGENCY, SPILL, LEAK, EXPOSURE OR ACCIDENT, CALL – IN THE U.S.A.: CHEMTREC 1-800-424-9300; IN CANADA: CANUTEC (613) 996-6666.