

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Name: Armstrong Resilient Sheet Flooring Products and Armstrong Resilient Tile Flooring Products.
Description: Vinyl Flooring

II. DEPARTMENT OF TRANSPORTATION INFORMATION

Shipping name: Not Classified. Hazard Class: N/A. ID #: N/A
EMERGENCY ONLY CONTACT: CHEM-TEL -1-800-255-3924

III. HMIS (0 = minimal hazard; 4 = severe hazard)

Health = 0 Flammability = 1 Reactivity = 0

IV. PRODUCT CONTENT

This product does not contain chemicals subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR 372. All components are on TSCA inventory. This product does NOT contain asbestos.

V. HAZARDOUS INGREDIENTS

(Chemical Identity: Common Name)	C.A.S. No.	%	OSHA PEL	ACGIH TLV
None	N/A	N/A	N/A	N/A

DESCRIPTION AND INGREDIENT INFORMATION

These vinyl flooring products are produced for residential and commercial (architectural) marketplace use. They come in a wide variety of aesthetic designs, styles, colors, surface finishes, and sizes.

MISCELLANEOUS INFORMATION

Each of these products is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200(c). They are formed to a specific shape or design during manufacture, have end use functions dependent upon their shape or design, and do not release any hazardous chemical under normal conditions of use.

VI. PHYSICAL DATA

APPEARANCE: Material dependent. BOILING POINT (degrees F): N/A. VAPOR PRESSURE (mm Hg @ 20 degrees C): N/A. VAPOR DENSITY (air = 1): N/A. PERCENT VOLATILE BY WEIGHT (30 min. @ 275 degrees F): N/A. EVAPORATION RATE (Butyl Acetate = 1): N/A. SOLUBILITY IN WATER: N/A. SPECIFIC GRAVITY (H₂O = 1): N/A. pH: N/A.

VII. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A. FLAMMABLE RANGE: LEL = N/A; UEL = N/A. EXTINGUISHING MEDIA: Water. SPECIAL FIRE FIGHTING PROCEDURES: Protect fire fighters from toxic products of combustion by wearing self-contained breathing apparatus. UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

VIII. HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: N/A. TARGET ORGANS: N/A. EFFECTS OF OVEREXPOSURE: N/A. SKIN AND EYES: N/A. INHALATION: N/A. CARCINOGENICITY: NTP: No; IARC Monographs: No; OSHA Regulated: No. MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NK. FIRST AID PROCEDURES: N/A. SKIN AND EYES: N/A. INHALATION: N/A. INGESTION: N/A.

IX. REACTIVITY DATA

STABILITY: N/A. INCOMPATIBILITY: N/A. HAZARDOUS DECOMPOSITION PRODUCTS: N/A. HAZARDOUS POLYMERIZATION: N/A.

X. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: N/A. WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State, and Local Waste Disposal Regulations.



Resilient Sheet Flooring Products and
Resilient Tile Flooring Products

Prepared 5/00 - Replaces 1/99

Armstrong World Industries, Inc.
P.O. Box 3001
Lancaster, PA 17604
(717) 396-2328 or (717) 396-2935

XI. SAFE HANDLING AND USE INFORMATION

VENTILATION: N/A. RESPIRATORY PROTECTION: N/A. SKIN AND EYE PROTECTION: N/A.

XII. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: N/A. OTHER PRECAUTIONS: N/A.

XIII. WARNING

FOR PREVIOUSLY INSTALLED FLOOR COVERING

DO NOT SAND, DRY SCRAPE, BEADBLAST, OR MECHANICALLY PULVERIZE EXISTING RESILIENT FLOORING, BACKING OR LINING FELT. THESE PRODUCTS MAY CONTAIN EITHER ASBESTOS FIBERS OR CRYSTALLINE SILICA. POSSIBLE CANCER AND RESPIRATORY TRACT HAZARD BY INHALATION. AVOID CREATING DUST. SMOKING BY INDIVIDUALS WHO HAVE BEEN EXPOSED TO ASBESTOS FIBERS GREATLY INCREASES THE RISK OF SERIOUS BODILY HARM. RECI'S (Resilient Floor Covering Institute) RECOMMENDED WORK PRACTICES FOR REMOVAL OF RESILIENT FLOOR COVERINGS ARE A DEFINED SET OF INSTRUCTIONS ADDRESSED TO THE TASK OF REMOVING ALL RESILIENT FLOOR COVERING STRUCTURES.

XIV. NOTICE

Various government agencies have regulations governing the removal of in-place asbestos-containing materials. If you contemplate the removal of a resilient floor covering structure that contains (or is assumed to contain) asbestos, you should determine whether such regulations apply.

The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

N/A - not applicable or not available

NK - none known or not known

Medintech Homogeneous Sheet

Warranty:	Limited 5-Year Commercial Flooring Products Warranty
Gauge:	0.080" (80 mils) (2.0 mm) overall (nominal) 0.080" (80 mils) (2.0 mm) wear layer (nominal)
Width:	6 feet (1.83 m) wide rolls up to 82 feet (25 m) long
Use:	Commercial
Shipping Weight:	6.95 lbs/sq yd
Gloss:	(typical value) 60° specular - approximately 15
Installation	
Location:	All grade levels
System:	Commercial Vinyl-Backed Installation System Recess Scribe; must be heat-welded
Fitting:	Free-hand knife, straight scribe, or pattern scribe S-575; S-580 for flash cove only, S-240 in areas subject to heavy rolling loads
Packaging:	Roll Size: 30-55 sq yds (Min-Max)

PRODUCT ATTRIBUTES:

- Protective urethane finish reduces initial and ongoing maintenance and increase scuff resistance.
- 30 mid-contrast colors styled to facilitate multiple color combinations within the product collection and with multiple weld rod colors.
- Heat welding creates clean, aseptic seams that resist the penetration of dirt and moisture. Weld rod colors also enhance the overall floor visual.
- Medintech and Medintech Tandem Inlaid Flooring share the same 30 terrazzo-like patterns and colors, so they can be seamed together for an uninterrupted visual with reduced overall installed cost.
- A choice of weld rods: Patterned weld rods create seams that virtually disappear into the overall floor visual; and solid color weld rods create seams that blend with or accent the overall floor design.
- Excellent durability, maintainability, resilience and resistance to indentation, rolling loads and static loads.
- Our best floor for operating suites.
- Styling and construction enhancements developed especially for healthcare and education spaces.

MATERIAL: A nonbacked, nonlayered, homogeneous vinyl composition, suitable for use on approved subfloors.

CONSTRUCTION AND COLORS: A homogeneously consolidated vinyl chip image. Colors and pattern detail are dispersed uniformly throughout the wear layer of the product. Color pigments are insoluble in water and resistant to cleaning agents and light.

REFERENCE SPECIFICATIONS: ASTM F 1913, Standard Specification for Vinyl Sheet Floor Covering Without Backing

FIRE TEST DATA:

ASTM E 648 Critical Radiant Flux - 0.45 watts/sq. cm. or more - Class I

ASTM E 662 Smoke - 450 or less

Numerical flammability ratings alone may not define the performance of the product under actual fire conditions. These ratings are provided only for use in the selection of products to meet the specified limits.

STATIC LOAD LIMIT: ASTM F 970 (modified) 750 psi (52.73 kg/sq cm)

DURABILITY: Excellent

MAINTAINABILITY: Excellent

RESILIENCE: Excellent

APPROXIMATE INSTALLED COST PER SQUARE FOOT:

U.S.: \$3.50 to \$4.50 Canada: C\$4.25 to C\$4.75

Maintenance of Medintech and Medintech Tandem in Surgical Areas

These products resist stains from a wide variety of materials, including povidone-iodine solutions. However, like any commercial floor, they are not stainproof. The concentration of the solution and the length of time the staining agent remains on the flooring are important. Normally, up to a 4 hour exposure is not a problem. However, a longer exposure may stain. It is advisable to remove the staining agent as quickly as possible.

If staining particularly from povidone-iodine solutions does occur, the procedures listed below can be used to remove stain from both polished and unpolished floors. Light staining can usually be removed by:

- A General Purpose cleaner, such as *"Speedball" by Butcher's or *"Spitfire" by S. C. Johnson, is sprayed on the stain and allowed to soak for 15 to 20 seconds, then removed, rinsed and dried. If stain is not completely removed, repeat until stain is removed or no more improvement is realized. Note: Other spot cleaners may be used but should first be tested to be sure they do not damage the floor.
- A solution of chlorine bleach (1-2 cups/gallon water) is applied and allowed to soak for 15-20 minutes, then removed, rinsed and allowed to dry. If stain is not completely removed, repeat until stain is removed or no more improvement is realized.
NOTE: Chlorine bleach solution should not be used on stains from *Hibitane as it will darken those stains. *Hibitane stains should be removed with alcohol. If residual stain remains, follow procedures listed above.
- Apply a commercially available iodine stain remover or a 10% to 15% solution of sodium thiosulfate and allow to soak for 10-15 minutes, then remove, rinse and allow to dry. If stain is not completely removed, repeat until stain is removed or no more improvement is realized.

If the above procedures do not remove stain entirely, completely strip the floor using a product such as Armstrong's S-490 Floor Stripper or equal. Dilute according to directions on label, and follow recommended use and handling procedures. Allow to soak for 15 to 20 minutes. Scrub with a blue 3M pad, or equal, or equivalent brush. Wet vac, rinse and allow to dry. If stain is not completely removed, repeat until stain is removed or no more improvement is realized. If any residual stain remains, refer to the procedures listed above.

The clean floor can be maintained by either of the following procedures, depending upon your requirements. Armstrong prefers that the floor be polished to help reduce potential staining, marking, and soiling. However, polishing is not always practical in operating rooms, due to insufficient time between operations to perform the ideal maintenance procedures.

Without Polish

- If higher gloss is desired, the thoroughly clean, dry floor may be buffed with a pad no coarser than 3M red or equal, or equivalent brush.
- Clean floor with a neutral floor cleaner such as Armstrong's S-485 Floor Cleaner or equal as quickly as possible after each use.
- Small stained areas can be spot treated using products such as *"Speedball" or *"Spitfire".

- Apply chlorine bleach solution (1-2 cups/gallon water) to any remaining stain. Rinse and allow to dry.
- If necessary, disinfect and allow to dry.

With Polish

- Apply two coats of a commercial floor sealer such as Armstrong's S-495 Commercial Floor Sealer or equal.
- Apply 3-5 coats of commercial floor polish such as Armstrong's S-480 Commercial Floor Polish or equal.

NOTE: Allow proper drying time between coats of sealer and/or polish. Maximum protection is reached after 24 to 48 hours.

- Clean floor after use as quickly as possible to reduce staining propensity. Use a neutral floor cleaner such as Armstrong's S-485 Floor Cleaner or equal.
- Small stained areas can be spot treated using products such as *"Speedball" or *"Spitfire" or an iodine remover.
- Apply chlorine bleach solution (1-2 cups/gallon water) to any remaining stain. Rinse and allow to dry. This will help reduce stain buildup.
- Badly stained areas can be treated as referenced above.
- Many times, the stain may have only penetrated the polish and is not into the sealer or the flooring. The polish can be removed by using a product such as Armstrong's S-490 Floor Stripper or equal.

Black Wheel Mark Removal: Another problem commonly encountered on hospital floors is black marking left by the wheels on carts and tables. These marks can be removed with a fairly simple maintenance procedure.

1. With a standard-speed floor machine, scrub area using a 3M blue pad (or equal) with detergent or spray cleaning solution.
2. For spot cleaning by hand, use the center plug of a blue scrubbing pad or blue pads sold for hand use.
3. For particularly persistent marks, scrub with blue hand pad moistened with charcoal lighter fluid, carefully following warnings on container. If flooring is not routinely maintained with floor polish, buff area with 3M red pad (or equal) to restore gloss. If floor polish has been used to maintain floors, reapply to affected areas.

***This does not constitute an endorsement or recommendation by Armstrong for any of the products, services or companies mentioned. This is for informational purposes only.**

Linoleum, Vinyl Sheet, Vinyl Composition Tile, Wall Base and Welding Rods Commercial Floor Warranty

PRODUCTS

Armstrong warrants its regular (first quality) linoleum, vinyl sheet, vinyl composition tile, vinyl and rubber wall base, and welding rods to be free from manufacturing defects for five years from the date of purchase.

INSTALLATION

Armstrong warrants the installation integrity of these products for five years from the date of purchase. Installation integrity means that the products are installed according to the Armstrong Guaranteed Installation Systems manual, F-5061. The F-5061 manual is revised on a yearly basis, and floors should be installed according to the recommendations contained in the issue of F-5061 that is current and available at the time of installation.

WORKMANSHIP

Armstrong does not warrant installers' workmanship. Workmanship errors should be addressed to the contractor who installed the floor. Your Armstrong commercial floor should be professionally installed by contractors who have demonstrated expertise in installing commercial floors.

TERMS

Within One Year: If a defect covered by this warranty is reported to Armstrong in writing within one year of purchase, Armstrong will supply new material of the same or similar grade sufficient to repair or replace the defective material. Armstrong will also pay reasonable labor costs.

Within Two Years: If a defect covered by this warranty is reported to Armstrong in writing after one year but within two years of purchase, Armstrong will supply new material of the same or similar grade sufficient to repair or replace the defective material. Armstrong will also pay fifty percent of reasonable labor costs.

After Two Years: If a defect covered by this warranty is reported to Armstrong in writing after two years but within five years of purchase, Armstrong will supply new material of the same or similar grade sufficient to repair or replace the defective material. Armstrong will not pay labor costs.

Armstrong will not pay labor costs to repair or replace materials with defects that were apparent before or at the time of installation.

EXCLUSIONS

The following are not covered by this warranty:

- Improper installation.
- Differences in color between products and samples or photographs.
- Indentation from improper loading including high heels, spiked shoes, rolling loads, chairs or other furniture not using floor protectors.
- Discoloration.
- Failure of the floor to adhere to the subfloor due to, for example, moisture, alkaline or hydrostatic pressure from the subfloor.
- Inappropriate end-user activities.

THERE ARE NO WARRANTIES BEYOND THIS EXPRESSED WARRANTY. ALL OTHER WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE EXCLUDED.

ARMSTRONG 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.

WARRANTY OWNER

This warranty extends only to the original end-user.

F-3349-600



DuPont Flooring Systems

PROJECT

**CONTRACT [REDACTED]
MEDICAL/DENTAL CLINIC**

[REDACTED]

FLOORING SUBCONTRACTOR

**DuPont Flooring Systems Project # 2423
8828 Complex Drive San Diego, CA 92123
(858)292-2575 (858) 292-2559fax
Contact for warranty repairs: Rico Santangelo**

GENERAL CONTRACTOR:

[REDACTED]

RESILIENT FLOORING :

**Armstrong Stonetex: Vinyl Tile
Armstrong Medintech: SheetVinyl
Roppe: Wall Base**

CARPET:

Mannington Carpet: Strategies

8828 Complex Drive San Diego, CA 92123 (858) 292-2575