

MedinPure™ PVC-Free Sheet with Diamond 10® Technology Coating

Commercial Sheet Flooring Installation Systems and Adhesives

	PVC-Free Sheet	Vinyl Backed	Safety Sheet	Fiberglass-Reinforced (Light Commercial Only)	Heterogeneous and Inlaid
	Medinpure with Diamond 10 Technology Coating	Medintone and Medintech with Diamond 10 Technology Coating Accolade Plus	Safety Zone	Abode Duality	Rejuvenations Classics Timberline Ambigu StoneRun Possibilities Corlon
Full Spread	S-799	S-599 S-543 or Flip Spray	S-599 S-543 or Flip Spray	S-289 Releasable (paint roller) Full Spread S-288 (Fine notch trowel) Full Spread S-289 Permanent (Fine notch trowel)	S-599 S-543 or Flip Spray
Perimeter Plus	n/a	n/a	S-599, S-543 or Flip Spray With S-240	n/a	n/a
Flash Cove Area Only	S-580 (optional)	S-580 (optional)	S-580 (optional)	S-580 (optional)	S-580 (optional)
Concentrated Load Areas	S-240	S-240 or Flip Spray	S-240 or Flip Spray	n/a	S-240 or Flip Spray

Commercial Flooring Installation Systems and Adhesives

Stair Treads and Rubber Tiles		Wall Base	
Rubber Tile	Stair Treads	Wall Base, Risers	Transition Strips
S-240 or S-799	Solvent Based Contact Adhesive	S-725	Solvent Based Contact Adhesive

Product	Gauge	Full Spread		Concentrated Static & Dynamic Load Areas	Heat Weld	S-761
		S-799	S-240*			
MedinPure with Diamond 10 Technology coating	0.080" (2.0 mm)	X	X	X	X	X

* It is necessary to smooth out the adhesive trowel ridges using a 3/16" (4.8 mm) nap paint roller. The purpose of this is to create a uniform application of the adhesive.

Installation:

- Location: All grade levels
- Pattern Match: No: reverse pieces (TM edge to TM edge)
- Seam Method: Recess scribe
- Seam Treatment: Heat weld, QuickWeld or S-761 Seam Adhesive
- Fitting: All methods

Suitable Substrates:

All substrates listed below must be properly prepared and meet the requirements discussed in Chapter 3, Subfloors and Underlayments. There may be other exceptions and special conditions for these substrates to be suitable for the Commercial Vinyl-Backed Installation System.

- Concrete (on all grade levels)
- Steel, stainless steel, aluminum
- Approved suspended wood
- Ceramic tile, terrazzo, marble
- Existing resilient floors
- Polymeric poured (seamless) floors

Job Conditions/Preparation:

- Resilient flooring should only be installed in temperature-controlled environments. It is necessary to maintain a constant temperature before, during and after the installation. Therefore, the permanent or temporary HVAC system must be in operation before the installation of resilient flooring. Portable heaters are not recommended, as they may not heat the room and subfloor sufficiently. Kerosene heaters should never be used.
- The surface shall be free of dust, solvents, varnish, paint, wax, oil, grease, sealers, curing compounds, residual adhesive, adhesive removers and other foreign materials that might affect the adhesion of resilient flooring to the substrate or cause a discoloration of the flooring from below. Spray paints, permanent markers and other indelible ink markers must not be used to write on the back of the flooring material or used to mark the substrate as they could bleed through, telegraphing up to the surface and permanently staining the flooring material. If these contaminants are present on the substrate, they must be mechanically removed prior to the installation of the flooring material.
- In renovation or remodel work, remove any existing adhesive residue* so that 100% of the overall area of the original substrate is exposed.
- Allow all flooring materials and adhesives to condition to the room temperature for a minimum of 48 hours before starting the installation.
- The area to receive the resilient flooring should be maintained at a minimum of 65° F (18° C) and a maximum of 100° F (38° C) for 48 hours before, during and for 48 hours after completion. **NOTE: When using S-240 Epoxy Adhesives, the maximum room temperature should not exceed 85° F (29° C).**
- During the service life of the floor, the temperature should never rise above 100° F (38° C), nor fall below 55° F (13° C). The performance of the flooring material and adhesives can be adversely affected outside this temperature range.
- For concrete substrates, conduct moisture testing (moisture vapor emission rate [MVER]) and/or percent relative humidity (in-situ probe). Bond tests must also be conducted for compatibility with the substrate. Please refer to Chapter 3, Subfloors and Underlayments.
- Radiant-heated substrates must not exceed a maximum surface temperature of 85° F (29° C).
- Concrete floors should be tested for alkalinity. The allowable readings for the installation of Armstrong® flooring are 5 to 9 on the pH scale.

* *Some previously manufactured asphaltic “cutback” adhesives contained asbestos (see warning statement on page xvi). For removal instructions, refer to the Resilient Floor Covering Institute’s publication Recommended Work Practices for Removal of Resilient Floor Coverings.*

Fitting:

- Unroll material and lay flat to allow the roll curl to relax before fitting.
- Material must be adhered within 4 hours of cutting and fitting.
- Before installing the material, plan the layout so seams fall at least 6" (15.24 cm) away from subfloor/underlayment joints and saw cuts/construction joints in concrete. Do not install over expansion joints. When installing over an existing resilient floor, plan the layout so the new seams are a minimum of 6" (15.24 cm) away from the original seams. When installing over tile, seams should fall in the center of the tile.
- Recommended fitting procedures include straight scribing, pattern scribing and freehand knifing.

Abutting Different Gauges of Resilient Flooring:

When installing thinner gauge material next to thicker gauge material, install thicker material first and then butt a 12" (30.5 cm) wide piece of S-153 Scribing Felt against the thicker material. Adhere the Scribing Felt to the subfloor with S-235 Adhesive. Use the fine notching of the S-891 Trowel over nonporous substrates such as existing resilient flooring and use the regular notching of the S-891 Trowel over porous subfloors such as wood and concrete. Use S-184 Fast-Setting Cement-Based Patch and Skim Coat or S-194 Patch, Underlayment and Embossing Leveler to feather the edge of the S-153 Scribing Felt to the level of the substrate. Allow the patch to dry completely before installing the flooring. Scribing Felt is not recommended to be used under the entire installation.

Adhesive Open Times and Trowel Notchings

Adhesive	Porous	Nonporous
S-799	Open Time: Set-in-wet, no open time U Notch: 1/16" (1.6 mm) deep, 1/16" (1.6 mm) wide, 3/32" (2.4 mm) apart	Not recommended U Notch: 1/16" (1.6 mm) deep, 1/16" (1.6 mm) wide, 3/32" (2.4 mm) apart
S-580 Brush-On or Roll-On*	Open Time: Minimum of 20–30 minutes Brush-On or Roll-On	Open Time: Minimum of 20–30 minutes Brush-On or Roll-On
S-240**	Open Time: Approximately 10–20 minutes Fine Notch: 1/32" (0.8 mm) deep, 1/16" (1.6 mm) wide, 5/64" (2 mm) apart	Open Time: Approximately 10–20 minutes Fine Notch: 1/32" (0.8 mm) deep, 1/16" (1.6 mm) wide, 5/64" (2 mm) apart

* Apply two coats of S-580 Flash Cove Adhesive with a brush or roller 4" (10.2 cm) onto the floor as well as up the entire cove area.

Allow adhesive to dry to a pressure-sensitive state between applications. S-580 has unlimited working time.

** It is necessary to smooth out the adhesive trowel ridges using a medium nap paint roller.

NOTE: Over porous substrates, install the material into the adhesive immediately after spreading. Over nonporous substrates, allowing the proper open time will help to minimize knee marks, roller marks and trapped air blisters. The amount of open time will vary according to job conditions, temperature, humidity, air flow and type of substrate. Initial blisters are caused by inadequate open time and will begin to show within one hour after rolling.

Procedure: See Chapter 5, Adhesives, Trowel Notchings, Seam Treatments and Grout.

Full Spread S-799:

1. Before installing the material, plan the layout so seams fall at least 6" (15.24 cm) away from underlayment joints, seams in existing resilient flooring and/or saw cuts in concrete. Do not install over expansion joints.
2. Cut pieces from the roll to the specified length, allowing enough material at each end to flash 1-1/2" (31.8 mm) up the wall for fitting.
3. Recommended fitting procedures include freehand knifing, pattern scribing and straight scribing methods.
4. Fit piece #1 and position in the room.
5. Prepare the seam edge by trimming the factory seam edge using an edge trimmer.
6. Draw a pencil line on the subfloor along the length of the trimmed factory edge.
7. Carefully lap the material back halfway to expose the subfloor.
8. Starting at the lap point and working toward the end wall, apply the adhesive up to the pencil line using the regular notching of the S-891 Trowel.
9. Allow the recommended open time before placing the material into the adhesive. Use extreme care when positioning the flooring over the adhesive, which has a firm grab and does not allow repositioning.
10. Starting at the center and working toward the edges, roll the material in two directions using a 100-lb. roller, staying 2" (5.1 cm) away from the seam. Clean adhesive residue from the surface of the flooring using a clean, white cloth dampened with a neutral detergent and water.
11. Repeat steps #7 through #10.
12. Cut piece #2, allowing enough material at each end to flash 1-1/2" (31.8 mm) up the wall for fitting.
13. Install pieces as recommended, TM edge to TM edge or TM edge to non-TM edge.
14. Overlap piece #2 onto piece #1 approximately 1/2" (12.7 mm). Prepare the seam edge on the opposite side of the sheet by trimming the factory seam edge using an edge trimmer.
15. Draw a pencil line on the subfloor along the length of the trimmed factory edge.
16. Carefully lap the material back halfway to expose the subfloor.
17. Starting at the lap point and working toward the end wall, apply the adhesive up to the pencil line using the regular notching of the S-891 Trowel.

18. Allow the recommended open time before placing the material into the adhesive. Use extreme care when positioning the flooring over adhesive, which has a firm grab and does not allow repositioning.
19. Starting at the center and working toward the edges, roll the material in two directions using a

- 100-lb. roller staying 2" (5.1 cm) away from the seam. Clean adhesive residue from the surface of the flooring using a clean white cloth dampened with a neutral detergent and water.
20. Repeat steps #16 through #19 for the remaining half of piece #2.
 21. Recess scribe the seam using a recess scriber. When heat welding, seams may be recess scribed slightly open [1/64" (0.4 mm)] to make guiding the router easier. When using S-761 Seam Adhesive, cut the seams net.
 22. Before cutting the seam, protect the floor by inserting a piece of scrap material beneath the scribe mark. With the scrap on the same side as the cutting hand, cut the seam holding a straight blade knife straight up and down.
 23. When using S-761 Seam Adhesive option cut seams net.
 - a. Cut the tip of the S-761 Seam Adhesive applicator bottle and apply a continuous 1/8" (3.18 mm) bead of S-761 Seam Adhesive along the seam edge of piece #1.
 - b. Tuck the seam edge into place, forcing the S-761 Seam Adhesive up through the seam.
 - c. Clean adhesive residue from the surface of the flooring using a clean white cloth dampened with a neutral detergent and water.
 - d. Refer to Chapter 7, Seams, S-761 Seam Adhesive Procedure for more detail.
 24. Roll the seam into place using a hand roller and roll again with a 100-lb. roller.
 25. Follow the same procedures for the remaining pieces, completing one piece at a time until the job is finished.
 26. When welding seams, weld seams as recommended. Refer to Chapter 7, Seams, Heat Welded Seams for more detail.
 27. Do not allow traffic on the flooring for 24 hours after installation.
 28. Newly installed flooring should not be exposed to rolling load traffic for at least 72 hours after installation to allow setting and drying of the adhesive.