

## **Repair and Maintenance Guidelines for Protect-All® Flooring**

This technical bulletin outlines recommended procedures for the proper inspection and repair of Protect-All flooring to ensure optimal performance, moisture resistance and long-term durability.

A regular repair and maintenance program should be adopted to identify areas of damage during the life of the floor. Protect-All flooring should be repaired as quickly as possible. Cuts in the flooring, seam separation or water penetrations around a drain must be dealt with immediately in order to create a seal against moisture intrusion or possible seam and subfloor failure.

### **Prior to Repair**

There are specific recommendations on the most effective ways to complete repairs. The following guidelines must be met to perform a successful repair:

- **Material Acclimation:** Material used for repairs must be acclimated for a minimum of 24 hours to reduce the possibility of expansion and contraction during installation.
  - Acclimation time varies based on the working temperature of the repair area. Temperatures below 60 degrees and above 80 degrees require up to 72 hours of acclimation.
- **Damaged Area Inspection:** Verify and check areas regularly for defects, including welds, seals around flooring penetrations, drains and any other areas showing damage.

### **Repair Procedures**

Procedure A: For Flooring That Has Lost Its Bond

1. **Removal:** Carefully remove the existing affected flooring to the point where the flooring remains firmly attached.
2. **Substrate Preparation:** Clean the subfloor of old adhesive and all edges of the existing Protect-All flooring. The repair area needs to be completely free of initial adhesive, grease and contaminants.
3. **Drying:** Use fans or infrared heaters to ensure the subfloor has completely dried from the cleaning and degreasing process. Using a heat gun can speed up the drying time if the floor is saturated.
4. **Dry Fitting:** Cut the new Protect-All flooring and dry lay it so that all edges fit tightly. No gapping of sheets is allowed, as any gapping will lead to premature failure of the replacement floor.
5. **Adhesive Application:** Properly mix PA-295 and apply adhesive to the subfloor, stopping about 1/8" short of the seam to prevent the adhesive from coming up through

the seam when rolling. Ensure all trowel marks are going in the same direction and then install the replacement piece.

6. **Rolling:** Roll the repaired area with a 100 lb. roller in the direction of the trowel marks immediately after installing and 45 minutes later in the opposite direction.
7. **Grooving:** Groove the seams with a 4.77 mm V-notch or a Wolff 4.5 mm U-shaped blade. The depth of the groove should be 3/16". Always test the depth with scrap flooring prior to grooving.
8. **Seam Tape:** Clean the grooves of any debris and apply seam tape. Ensure no seam tape is overlapping into the seam.
9. **Welding:** Protect-All Rapid Weld™ the seams, pull the tape immediately and allow it to cure. Ensure seams do not have more than 1/64" deflection after drying.

#### Procedure B: For a Seam That Has Separated

- Separated or cracked seams must be removed or replaced; they cannot be filled in with new Rapid Weld.
1. **Removal:** Carefully remove the existing affected flooring to the point where the seam is good and the flooring is properly bonded to the substrate, creating a saddle over the affected seam.
  2. **Substrate Preparation:** Clean the subfloor of the old adhesive and all edges of the existing Protect-All flooring. The repair area must be completely free of initial adhesive, grease and contaminants.
  3. **Drying:** Fans or infrared heaters may be needed to ensure the subfloor is completely dried from the cleaning and degreasing process. A heat gun or infrared heat lamp can be used to speed up drying time if the floor is saturated.
  4. **Saddle Fitting:** Cut a saddle piece of material and dry lay to fit the area that has been removed so that all edges fit tight with no gapping of the sheets.
  5. **Adhesive Application:** Properly mix PA-295 and apply adhesive to the subfloor, stopping about 1/8" short of the seam. Ensure all trowel marks run in the same direction, then install the replacement piece.
  6. **Rolling, Grooving & Welding:** Follow the standard rolling, grooving and Rapid Weld finishing guidelines as outlined in steps 6 through 9 of Procedure A.

#### Procedure C: For a Leak Around a Drain

1. **Preparation:** Follow steps 1 through 5 from the preparation and installation of a saddle piece guidelines to prepare the subfloor and material.

2. **Drain Cutting:** Cut the hole for the drain using chalk on the outside edge of the drain and transfer it onto the back of the repair sheet. An under-scribe tool is also acceptable. Make sure to cut tight to the drain, leaving no gaps.
3. **Ring Templating:** Set the cut piece in place and trim as necessary. Place the drain ring and use it as a template to mark the outer edge. Cut into the flooring to the depth of the drain ring, being careful not to puncture all the way through.
4. **Routing:** Move the Protect-All piece to a flat, even surface and use a router equipped with a  $\frac{3}{4}$ " flat bit to rout the surface to the depth of the drain ring. Note: Do not rout flooring after floor installation.
5. **Dry Lay Check:** Dry lay the material to verify all pieces fit correctly.
6. **Anchor Prep:** If existing screw holes are damaged or unusable, fill the existing holes, drill new holes, place anchors and vacuum the area.
7. **Adhesive & Sealant Installation:** Properly mix PA-295 and apply adhesive to the subfloor, stopping about  $\frac{1}{8}$ " short of the seam with all trowel marks going in the same direction. Intentionally leave the glue 1" away from the drain opening, applying the glue circularly around the drain. This 1" void with no glue must be filled with a generous bead of E6100®.
8. **Setting & Cleaning:** Install the prepared repair piece of Protect-All flooring, then press with a hand roller to ensure the E6100 adhesive spreads underneath and squeezes up around the drain. Clean excess sealant immediately with a damp cloth of isopropyl alcohol.
9. **Final Rolling:** Roll the entire repair piece initially in the same direction as the adhesive comb lines, and 45 minutes to an hour later in the opposite direction.
10. **Drain Ring Securement:** In the final stage of the drain ring installation, place two rings of E6100 in the area where the drain ring will be placed. One ring should be on the outside of where the predrilled holes are, and one on the inside. Fill the screw holes with E6100 and secure the drain ring with #12 1 $\frac{1}{4}$ " stainless steel screws.

### After Repair

- Ensure the repaired installation area remains undisturbed during the adhesive and weld curing periods.

We encourage you to reach out to the Protect-All Technical Department at 800.544.9538 with any questions or to learn more about this product.