TRAVELLER

LIGHT WEIGHT FLOORING ASSEMBLY
FOR RAIL PASSENGER CARS

REPAIR GUIDE

Gerflor®
theflooringgroup

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INTRODUCTION

This guide is produced to assist customers with quick and simple repairs and can be considered as an addition to the end user's O & M Manual.

The need for such repairs are generally due to factors outside the operators control and could be due to vandalism or other damage that leads to water and grit ingress, creating an abrasive effect on the flooring and therefore the rapid failure of the flooring in that area.

When undertaking such repairs, aesthetics are not as important as the need to make the damaged area watertight, which will enable a quick return to service and prolong the life of the installed material.

This guide will help the user to create a simple repair :

- *On a mild scratch*
- *On a deep gouge*
- *On a failed welded joint*
- *On a damaged area where a patch is necessary*
- *On an area where a larger section requires replacement*

On some repairs, it may be necessary to carry out remedial work to the subfloor :
Always ensure that the old adhesive residue is removed and ensure that any fillers used to flatten and smooth the area to be repaired are compatible with the subfloor type.

1. MILD SCRATCHES

POSSIBLE CAUSES

- Thin, sharp object dragged across the surface
- Glass
- Vandalism

TOOLS REQUIRED

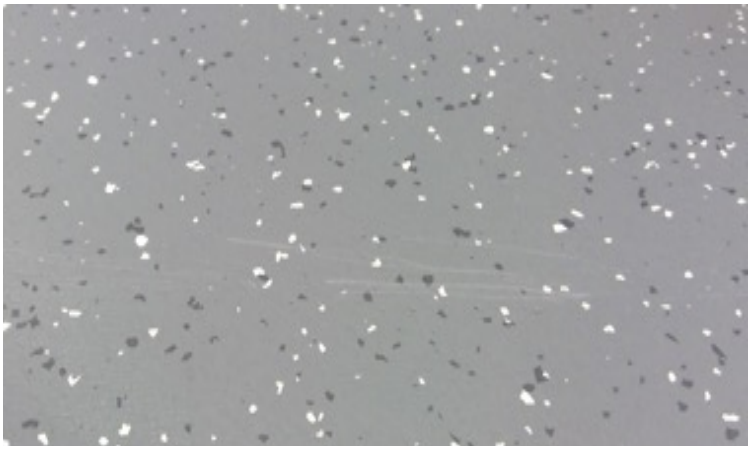
- Clean white cloth
- Acetone  *ATTENTION : Local rules on the use of hazardous materials must be observed

PPE REQUIRED

As per local rules for the area to be worked in.
Additional PPE : Suitable Gloves, Safety Glasses, Respirator Mask if ventilation is insufficient.

TIP: have a look at our YouTube video : Mild scratches - Repair Guidelines

EXAMPLE

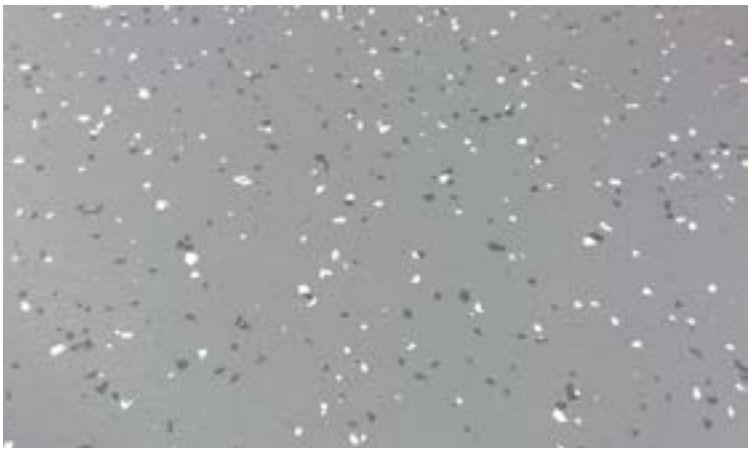


Dependent on the dirtiness of the installed floor, it would be recommended to clean the whole floor area first with a high alkaline detergent. This will remove any contaminants from the floor surface.

Step 1) Apply acetone onto the white cloth

Step 2) Rub the cloth over the scratch. Use your body weight to apply force to the floor

Step 3) Keep repeating the process as the acetone evaporates and until the scratches diminish (Approx 1 minute total working time)



Final Result : Scratches flattened and diminished

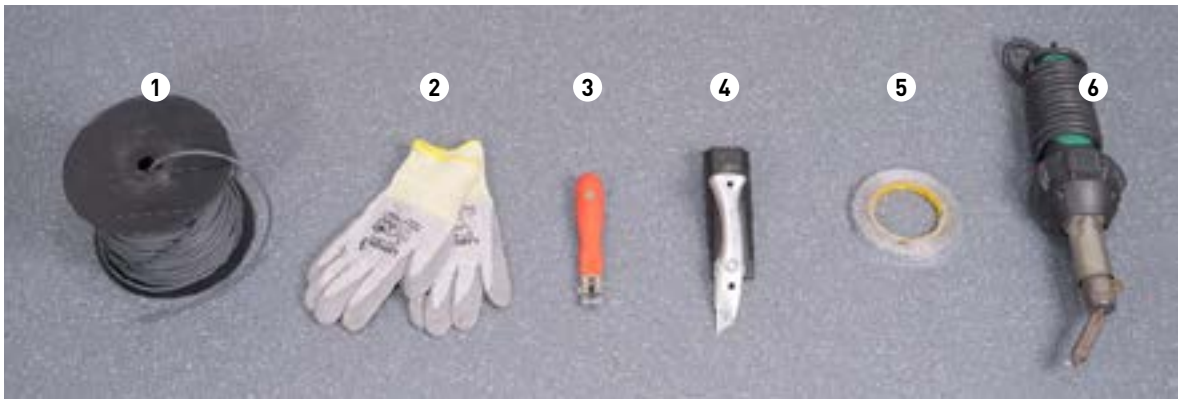
2. DEEP GOUGE

POSSIBLE CAUSES

- Blunt, heavy objects dragged across the surface
- Impact
- Vandalism

TOOLS REQUIRED

(1) Matching Weld Cord, (3) Mozart Weld Trimmer, (4) Knife with Straight Blade, (5) Aluminium Tape or Masking Tape, (6) Hot Welding Gun with the Turbo Roller Detail Nozzle



PPE REQUIRED

As per local rules for the area to be worked in.
Additional PPE : (2) Anti Cut Gloves

TIP: have a look at our YouTube video : Deep Gouge - Repair Guidelines

Step 1) Clean out the damage by carefully scraping the knife blade along the gouge.

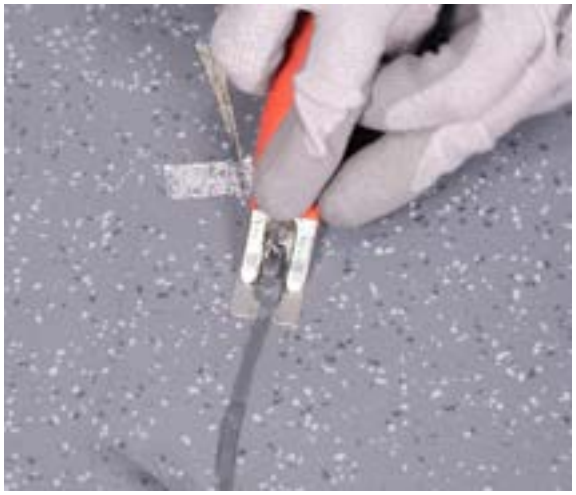
** If needed cut along the gouge (at an angle) to produce a more consistent gap (max 4mm wide).

Step 2) Use the aluminium or masking tape to contour the perimeter of the damaged area.

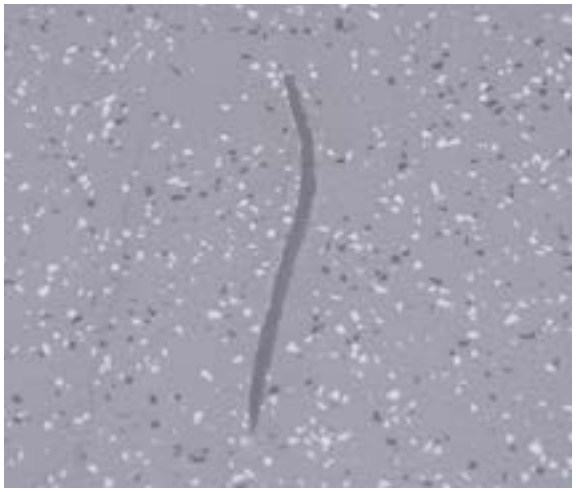
Step 3) Using a welding gun with the Turbo Roller Nozzle attached, set the temperature to 7 and allow to warm.

Step 4) Apply the weld cord through the nozzle and into the damaged area. Ensure constant movement, pressure and speed.

Step 5) Remove the protective tape from the sides and using the Mozart Weld Trimmer with the 0.7mm spacer in place, trim the weld and allow to fully cool. If the working area is warm, use a cloth with cold water to cool the weld quicker.



Step 6) Remove the protective tape from the ends and trim the weld cord flush using the Mozart Weld Trimmer with spacer retracted.



The end result is a water tight repair that enables the floorcovering to perform as expected.

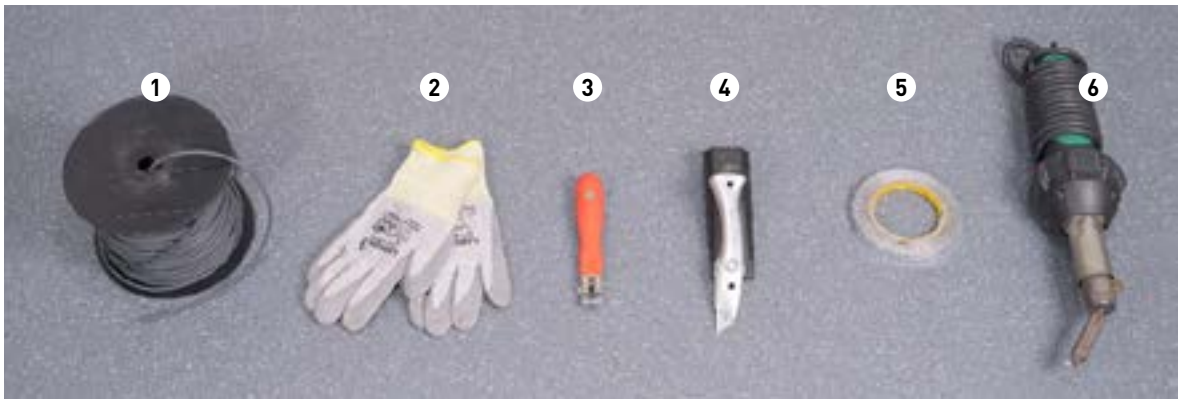
3. FAILED WELDED JOINT

POSSIBLE CAUSES

- Issue with the original weld
- Blunt, heavy objects dragged across the surface
- Impact
- Vandalism

TOOLS REQUIRED

(1) Matching Weld Cord, (3) Mozart Weld Trimmer, (4) Knife with Straight Blade, (5) Aluminium Tape or Masking Tape, (6) Hot Welding Gun fitted with the Turbo Roller Detail Nozzle or Rapid Ultra Nozzle (if preferred)



PPE REQUIRED

As per local rules for the area to be worked in.
Additional PPE : (2) Anti Cut Gloves

TIP: have a look at our YouTube video : Repairing a failed weld - Repair Guidelines

Step 1) Remove all the loose weld cord up to where the remaining cord is well fused. Carefully cut so the old material can be disposed of. Check the exposed groove to ensure it is free from debris.

Step 2) At each end where the material is well fused, take a knife with a straight blade and create a "V" cut into the weld (approx. 15mm)

Step 3) 5mm away from the tip of the "V" cut, place a band of tape across the weld. This prevents any burning or excessive shine being created on the existing weld.

Step 4) Using a welding gun with the Rapid Ultra Nozzle attached, set the temperature to 4.5 - 5 and allow to warm. Apply the weld cord through the nozzle and start over the tape, carefully feeding the weld into the "V" cut and continuing along the groove. Ensure constant movement, pressure and speed.

Step 5) When approaching the end of the repair, take care to run the weld into the "V" cut and control it so it says on line. At the end of the "V" cut, continue over the 5mm of exposed weld, run onto the tape and pull away the weld gun.

Step 6) Using the Mozart Weld Trimmer with the 0.7mm spacer in place, trim the weld and allow to fully cool. If the working area is warm, use a cloth with cold water to cool the weld quicker.

Step 7) Remove the protective tape and trim the weld cord flush using the Mozart Weld Trimmer with spacer retracted.

The end result is a repaired weld able to perform as expected and regain its water tightness

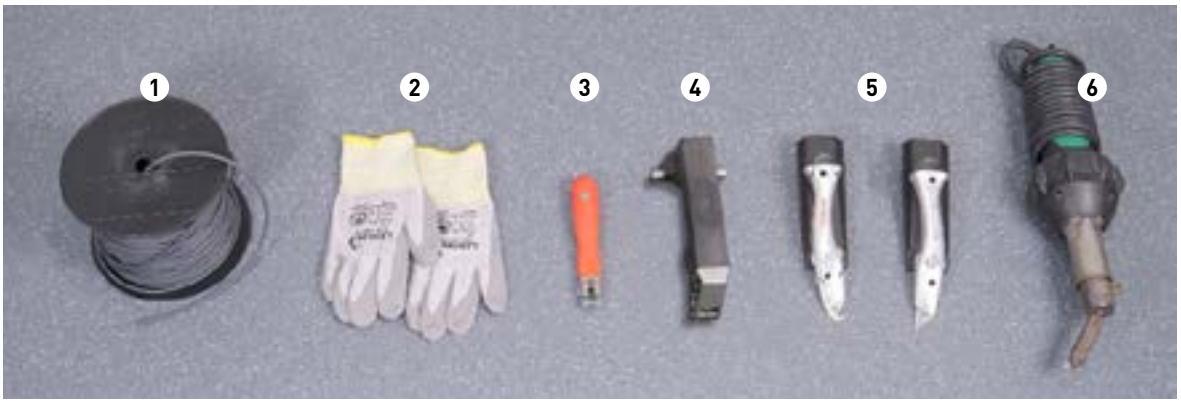
4. PATCH REPAIR

POSSIBLE CAUSES

- Blunt, heavy objects dragged across the surface
- Sharp cuts / Material Missing
- Impact
- Vandalism

TOOLS REQUIRED

(1) Matching Weld Cord, (3) Mozart Weld Trimmer , (4) Master Groover, (5) Knife with Straight Blade and Hooked Blade, (6) Hot Welding Gun fitted with the Turbo Roller Detail Nozzle



PPE REQUIRED

As per local rules for the area to be worked in.
Additional PPE : (2) Anti Cut Gloves

TIP: have a look at our YouTube video : Patch repair - Repair Guidelines

Step 1) Create a template from old flooring or another solid material. This can be re-used and keeps all repairs a consistent size. Always round off the corners , this ensures the weld can be completed in one.

Step 2) Place the template over the damaged area. Using a straight knife, carefully score around the template edge.

Step 3) Remove the template and use the hooked knife to cut through the score line enabling the damaged area to be removed. Remove and debris from the subfloor.

Step 4) Place the template onto a new piece of flooring and repeat the process of scoring and cutting.

Step 5) Ensuring the correct orientation, place the new piece into position. Carefully trim to fit.

Step 6) Adhere the piece into place. Gerflor recommends the use of our self adhesive material as this ensures no mess, fumes or waste. More importantly, the self adhesive option would allow welding to be undertaken immediately. Other adhesives would require a minimum of 12 hours before welding can be done.

Step 7) Groove the joint. Use a suitable grooving tool for the straight sides and the corners. If the tool being used cannot groove the corner then take a knife with a straight blade a carefully create a chamfer on both sides. The width of the chamfered groove should be no wider than 3mm (same as the groove on the straight sides)

Step 8) Using a welding gun with the Turbo Roller Nozzle attached, set the temperature to 7 and allow to warm. Apply the weld cord through the nozzle and start to run along the groove. Ensure constant movement, pressure and speed.

Step 9) If working as a team. Ask a collegue to trim 50mm of the weld start using the Mozart Weld Trimmer with the 0.7mm spacer in place. Once trimmed create a "V" cut into the weld (approx. 15mm). This allows the welding operation to continue without pause.

Step 10) When approaching the end of the repair, take care to run the weld into the "V" cut and control it so it says on line. At the end of the "V" cut, continue over the 5mm of exposed weld and pull away the weld gun.

Step 11) Using the Mozart Weld Trimmer with the spacer retracted, trim flush the weld to the surface of the flooring.

The final result provides an effect repair that will be watertight and not compromise the performance of the installed floor.

Note : An off-shade welding cord was chosen for these repairs so the process can be clearly seen. A matching welding cord will be less conspicuous

5. LARGE SECTION REPLACEMENT

POSSIBLE CAUSES

- Subfloor Issue
- Damage too large to patch repair
- Impact
- Vandalism

TOOLS REQUIRED

(1) Pulling Claw, (2) Knife with Hooked Blade

PPE REQUIRED

As per local rules for the area to be worked in.
Additional PPE : (3) Anti Cut Gloves. Masks when Sanding

TIP: have a look at our YouTube video : Large section replacement - Repair Guidelines

Step 1) Within the area to be removed, cut the material into 30cm wide strips. This eases the uplifting process

Step 2) Release from the floor the end of the strip to be uplifted. Attach the pulling claw and with force, pull the material off the subfloor and old adhesive.

Correct method of attachment for the Pulling Claw

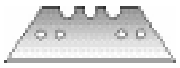
Use of the Pulling Claw eases removal

Step 3) After uplift has been completed, check the condition of the subfloor : Remove by sanding any adhesive residues that remain on the subfloor.
Any other damage that effects the flatness or integrity of the subfloor, should be repaired in accordance with the subfloor manufacturers recommendations.
Sand and vacuum the subfloor to ensure and clean, smooth surface on which to install the replacement piece.

Step 4) Install the large replacement piece using the current Gerflor Installation guidelines as a reference for conditions, acclimatisation, installation and final welding.
▶ Gerflor Installation guidelines

The final result provides an effect repair that will be watertight and not compromise the performance of the installed floor.

ANNEX : TOOL LIST & PART NUMBERS

CODE ARTICLE	DESCRIPTION	
E6000002	DELPHIN KNIFE (1 unit)	
E7510003	100 STRAIGHT BLADES	
E7520001	100 HOOKED BLADE	
E8100009	MASTER TURBO GROOVER	
E8060003	CHANFREINEUSE MASTER TURBO	
E8100002	ANTI-GLAZE RAPID NOZZLE 4-5 mm	
E8090002	HOT WELDING GUN LEISTER TRIAC-S 220 V	
E8300002	MOZART 2 IN 1 TRIMMING KNIFE	
E8040001	SPARE BLADES MOZART (5 units)	
E3060001	CARPET CLAW	

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