

WELDING HOW TO GUIDE

Welding and Pointing

For flooring applications with surface areas that have hygienic requirements which are also exposed to moisture (wet rooms) or in rooms subject to intensive wet cleaning, properly welded floors are a must.

The Welding Process

Adhesive recommended by the manufacturer is required installing linoleum and rubber. Usually 3 to 5 mm welding rod of the same material, that is recommended by the manufacturer is used for welding PVC or TPU surfaces.

Before welding, the seam edges are grooved to approx. 2/3 of the thickness of the surface and then heat seam welded with the welding rod.

It is important that the welding rod is fully melted into the milled surface created by the groover. The rod is then trimmed level to the surface in two steps using the Leister quarter-moon knife: In the first stage, the rod is trimmed using the half moon knife and slide immediately after welding/pointing. A second pass is made with the knife once the welded seam has completely cooled down. This prevents the welding rod from being trimmed below the level flooring material and produces an even, flush surface.

Welding in 4 Steps

Grooving

The flooring material must be glued to the substrate using the adhesive recommended by the manufacturer.

Caution : Before grooving, the adhesive between the substrate (screed) and the floor covering must be dry.

A groove is then milled in the floor covering using the GROOVER.

Caution : Work step by step: Groove first, then weld.

Different blades are used depending on the floor welding application.

Caution : This will depends upon the welding and the properties of the flooring material.

The cutting depth is determined based on the following (Fig. 1):

- A maximum of half of the welding rod diameter.
- No more than 2/3 of the flooring material thickness

Welding – preparation

The milled groove must be positioned in the center of the seam, otherwise the weld will not be adequate (Fig. 2).

Caution : B efore beginning the weld, a separate weld test must always be performed to verify the heat. speed and temperature settings are correct for each application.

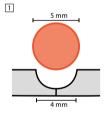
The welding parameters must be set so that a weld bead forms (Fig. 3).

Material	Manual welding temperature	Automatic welding temperature
Linoleum	Approx. 300–400°C	Approx. 400–450°C
PUR/TPU:	Approx. 350–400°C	Approx. 450–500°C
PVC:	Approx. 350–450°C	Approx. 450–550°C
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A welding nozzle with a narrow air outlet must be used in order to avoid any impairment to the surface covering.

Caution : An impairment only becomes visible after several cleaning cycles. Short welded seams a more easily welded with a TRIAC ST/AT or the HOT JET S than a MINIFLOOR or UNIFLOOR machine..

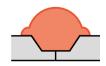




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Welding – implementation
Welding with an automatic welder (UNIFLOOR / MINIFLOOR)
Is recommended for time savings and precise / repeatable welded seam results.
Constant (high) speed
Constant pressure
Constant temperatures (UNIFLOOR E / MINIFLOOR with TRIAC AT)

Manual welding (TRIAC / HOT JET S / GHIBLI) Recommended for short grooves, repairs, or transitions For a consistent weld quality, the following must be taken into consideration: As constant a speed as possible As constant a pressure as possible Constant temperature (TRIAC AT)



The first detachment procedure takes place when the welding rod is not yet cool using a sharpened quarter-moon knife and a slide attachment.

Caution : It is essential that the welding wire is cut in two stages.

This prevents the weld from sagging below the level surface. (Fig. 4).

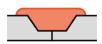








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Cutting – step 2

The second trimming procedure only takes place when the welded seam has cooled down. The cut is made flush to the surface covering using the quarter moon knife again.

The second cut takes place after the first cut and after a rest period.Rest period for linoleumapprox. 15 minutesRest period for PVCapprox. 5 minutes

The surface is now able to bear a load and can be cleaned (Fig. 5).Rest period for linoleum until it can bear a full loadapprox. 12 hoursRest period for PVC until it can bear a full loadapprox. 1 hour