

# turfcord manual

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## 1. Preparing the hoof

1. Important: The turfcord glue is sensitive to humidity and temperature. For a good result the glue needs some residual moisture of the hoof horn.

In contrast to other gluing techniques the hoof may have been in a wet or moist environment (like snow, rain, mud, wet, dry or moist turf) prior to the gluing procedure.

Wipe off any moisture or dirt and let the hoof dry for 10 minutes (under dry and clean conditions). Do not use a blow-dryer or anything similar.

Under dry, arid, and/or hot weather conditions however, it is necessary to water/submerge the hoof prior to the procedure described above. After submerging the hoof, the surface of the hoof needs to be dried as usual.

In any case, before gluing, the hoof needs to dry for 10 minutes.

2. Trimming the frog.
3. Trimming heel and sole.
4. Open the heels if necessary.
5. Remove the fatigue hoof horn. A cordless grinder with the right tool is very helpful.
6. Shorten the horny wall and correct the stand.
7. Rasp the horny wall at all contact areas to the turfcord.
8. Round the edges gently.
9. Keep the hoof clean until you glue on the turfcord.

## 2. Finding the right size

1. You need a tape-measure in a mm scale.
2. Measure the prepared hoof.
3. You need to measure along the horny wall from heel end (corn) to heel end (corn) (last contact point to the ground).  
The arrow in the picture shows the heel end.
4. A flat heel end could end in one size up. A steep heel end could end in one size down. It should be tested before gluing.
5. In general, you can find front and rear shapes in our program. Depending on the shape of the hoof this has not to be followed strictly.
6. Your measurement makes the choice of the size, for example: a front hoof measurement



of 320 mm needs size F320.

### 3. Preparing the turfcord

1. At the fitting test you should find out whether the pedestals need to be shortened. Push the pedestal down until the turfcord gets in full contact with the hoof. Look at the height exceeding the tread of the turfcord. Shorten if necessary to 5mm height over the tread to have still pressure when you let the hoof down to the mat.
2. Clean the turfcord from the inside with brake cleaner (the cleaner has to be free of acetone, best approved product is our cleaner you can buy from Niemerg oHG, Münster)
3. Attention: On cold days the turfcord and the glue should be warmed up: keeping it for example in your pocket or warming it up with a hairdryer.

### 4. Gluing on the turfcord

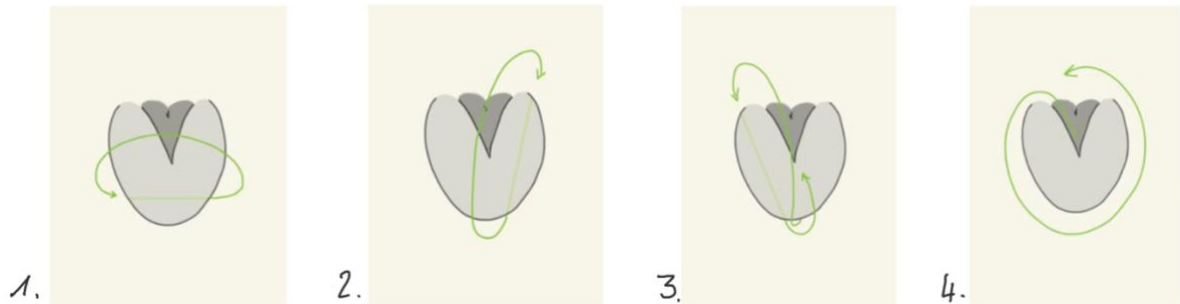
1. Before you glue make sure all contact surfaces are freshly rasped.
2. Wear powder free Nitril gloves.
  3. Apply a thin but complete layer of glue TC4/11 at the inside of the turfcord.
  4. Apply a thin but complete layer of glue TC4/11 at all contact surfaces of the hoof.
  5. Take the turfcord at both ends with both thumbs and forefingers so that the thumb bases are placed in the middle of the toe area of the turfcord.
  6. Open the turfcord ends and stretch the turfcord over the toe. Use the marks to center it correctly. It helps to mark a centreline at the hoof before gluing and to line this up with the centre of the turfcord
  7. Press the turfcord with the thumb bases to the toe and stretch both sides over the heels.  
Important: The sides of the turfcord have to be pushed to the centre to avoid air inclusions. The turfcord should just picture the original form of the hoof.
  8. Now the helper has to fix the ends of the turfcord with his/her thumbs.
  9. Check the proper fit at the whole sole. At this stage of the process, you can still correct the placement. The binding process of the glue starts later.
  10. Wrapping the turfcord with stretch foil.
    1. The foil has to have special physical properties. The standard foil you get on the market will not work. You can get the right one from Niemerg oHG, Münster.
    2. Wrap three to five times anti - clockwise cross the hoof. Keep the foil stretched at all times. The rim of the handle helps.
    3. Move to the toe and wrap from there 3-4 times diagonally over the right or left heel covering also the bulbs of the heel.  
Attention: The turfcord ends should be kept in position.  
This needs some experience. We recommend some dry training.  
It will pay off.  
The handle grip should show away from the horse's leg.
    4. Change direction at the toe and cover the other diagonal accordingly.
    5. Wrap 5 times along the horn wall over the bulbs of the heel.

6. Tear the foil off over the edge of the turfcord.

11. Take the hoof down to the mat and hold the opposite leg up for 3- 5 minutes. You can start working on the lifted hoof.

Attention: The horse should not make abrupt or turning moves

during the binding process of the glue. The glue is binding under the pressure of the weight of the horse.



## 5. Finishing the turfcord

1. After 10 minutes you can take off the foil

2. Cut off the pedestals and the lip with a nipper and a knife.

Do not work with any leverage of the tools to avoid compromising the gluing result.

Recommendation: Keep the horse for one hour after the gluing process in the box before harder activities.

## 6. Basics about the glue

Our glue is developed especially for the use of turfcord. It is a one component thin layer glue.

The maximum gap it can bridge is 0.2 mm. The optimum gap is 0.01 mm.

This leads to a very low consumption. The 50 ml bottle should last for gluing 8 hooves.

To guarantee the smallest gap between hoof and turfcord it is essential to fix and to wrap it properly.

The binding process starts with the pressure you put on by wrapping and putting the hoof down with the full weight of the horse.

When the two parts are together with glue they can be corrected for a short time. Once you wrap it, the glue starts to react because of the pressure, for this reason the wrapping and putting down the hoof has to be done fast.

The binding time varies between 2-5 minutes depending on humidity and temperature.

The optimum humidity is 60%. The optimum temperature is 20°C.

In wintertime you usually do not have to care about humidity but about the temperature. Warm up the turfcord and the glue for example with a hair dryer or in a pocket of your clothes. In summertime with temperatures above 25°C you need to watch out for sufficient humidity. 10°C higher temperature shortens the binding time by half. At 30°C outside temperature you have to work faster. On hot days it is helpful to glue early in the morning.

**Very Important:** Before starting the gluing process the hooves have to be free of any kind of hoof care products like oil, cream, grease or hoof horn hardener for at least 4 weeks.

The glue does not damage the hoof horn but has a small antiseptic effect.

On warmer days the glue evaporates to a degree which is not very comfortable to inhale. We recommend keeping your face away from the smell, by using the wind flow and by keeping the head aside. For more safety you can use a mask similar to the Corona protection mask.

You should wear powder free nitril gloves. Avoid any contact to the eyes.

Contact a doctor if this happens.

Please read the data safety sheet on the website of:  
Cyberbond/HB Fuller the producer of TC4/11