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**MAREFLEX MF 40**

**PIPE REPAIR KIT**

**INSTALLATION INSTRUCTION**

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## Pipe Repair Kit – measurement table

Nominal pipe diameter	Amount of rolls and size		
	3, 5 bar 10 layers of wrapping	10 bar 15 layers (mm x meters)	28 bar 20+ layers
mm			
12,5	1 (50 x 1,5)	1 (50 x 1,5)	1 (50 x 1,5)
19	1 (50 x 1,5)	1 (50 x 1,5)	1 (50 x 1,5)
25	1 (50 x 1,5)	1 (50 x 1,5)	1 (50 x 3,6)
32	1 (50 x 1,5)	1 (50 x 3,6)	1 (50 x 3,6)
38	1 (50 x 1,5)	1 (50 x 3,6)	1 (50 x 3,6)
50	1 (50 x 3,6)	1 (50 x 3,6)	1 (50 x 3,6)
63	1 (50 x 3,6)	1 (50 x 3,6)	2 (50 x 3,6)
75	1 (50 x 3,6)	1 (50 x 3,6)	2 (50 x 3,6)
88	2 (75 x 2,7)	2 (75 x 2,7)	3 (75 x 2,7)
100	2 (75 x 2,7)	2 (75 x 2,7)	3 (75 x 2,7)
125	2 (75 x 2,7)	3 (75 x 2,7)	3 (75 x 2,7)
150	2 (75 x 2,7)	3 (75 x 2,7)	4 (75 x 2,7)
200	3 (75 x 2,7)	4 (75 x 2,7)	5 (75 x 2,7)
250	3 (100 x 3,6)	4 (100 x 3,6)	5 (100 x 3,6)
300	3 (100 x 3,6)	4 (100 x 3,6)	6 (100 x 3,6)
350	4 (100 x 3,6)	5 (100 x 3,6)	7 (100 x 3,6)
400	4 (100 x 3,6)	6 (100 x 3,6)	8 (100 x 3,6)
450	4 (100 x 3,6)	7 (100 x 3,6)	9 (100 x 3,6)

### ATTENTION:

The measurement table serves only as a guideline. The product is applied manually and the result may vary depending on the experience of the person applying it. Always use the entire roll. The table above is for standard pipe sizes. The actual diameter of the pipe may vary depending on its type and the thickness of its casing. When repairing a cased pipe refer to the values given for the next pipe diameter in the table. The application of this product on cased pipes may require the use of additional products.

## AVAILABILITY

The pipe repair kit is available in 4 standard sizes:

Size	Code name
50mm x 1,5 m	MF40-5015
50mm x 3,6 m	MF40-5036
75mm x 2,7 m	MF40-7527
100mm x 3,6 m	MF40-10036

To repair one leak use the measurement table from the page 2. Choose the amount and size of the rolls based on the size and pressure of the damaged pipe.

**Example:** To repair a pipe 50mm in diameter designed to handle pressure of 3,5 bars, one 50mm x 3,6m Pipe Repair Kit (MF40-5036) is needed. At least 10 layers of Pipe Repair bandage need to be applied around the leak.

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## CONTENT

The Marflex MF 40 Pipe Repair Kit includes:

- 1) aluminium bag containing a polyurethane resin soaked bandage made of fibre glass
- 2) package of epoxy putty
- 3) pair of latex gloves
- 4) installation instruction

## IMPORTANT!

Do not open the aluminium bag before the pipe is ready for repair. It is crucial to put on the gloves (included) and safety glass (not included) while applying the product.

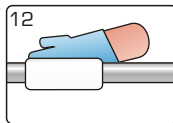
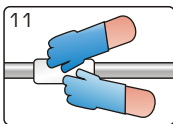
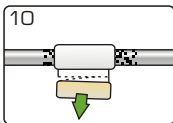
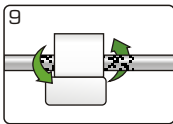
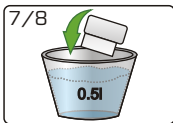
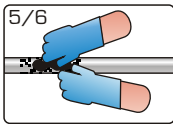
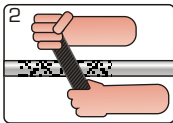
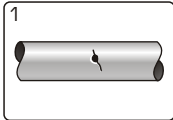
**YOU WILL NEED:** a small container of water, file or sandpaper, safety glasses.

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## MAINTENANCE AND STORING

Material should be stored in a dry, cool and well ventilated area. It is recommended to store the product in the original packaging.

## REPAIR PROCEDURE WITHOUT PIPE FLOW

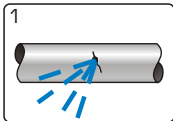


- 1 Turn the liquid supply off.
- 2 Dull the surface that is to be repaired using file or sandpaper. In case of PVDF, polyethylene and polypropylene pipes use a saw blade to get the chequered pattern required.
- 3 Put on the latex gloves.
- 4 Take the epoxy putty out of the plastic container. Remove the protective film.
- 5 Mold the epoxy putty until it is smooth and dark grey and until it becomes warm [approx. 20 seconds].
- 6 Apply the epoxy putty to the leak so that it fills the holes and cracks.
- 7 Fill the prepared container with water.
- 8 Rip the aluminium bag apart along the incision. Take out the bandage and dip it in the water for 5 seconds. Squeeze the roll of bandage hard twice and take it out of the water.
- 9 **Apply it quickly because the time of application is 2 minutes max.** Wrap the bandage tightly and carefully around the surface being repaired. Use the entire roll of bandage.
- 10 Tear off the plastic tube from the end of the roll.
- 11 Dip the gloves in water and quickly press the resin bubbles back into the bandage wrapped surface, smoothing the area with precise backward and forward movements.
- 12 Smooth the wrapped bandage until the bubbles stop appearing [approx. 3 to 5 minutes]. After application, the entire part of the pipe being repaired, should have the colour of ivory.

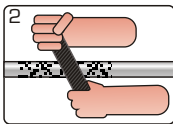
## ATTENTION

- 1) The pipe repair kit is best applied to rough surfaces. If the surface of the pipe is covered in peeling rust, remove the rust before application.
- 2) A couple of rolls of bandage can be applied in one place if needed. [refer to the table on page 2].
- 3) In case of leakage at tee-joint, roll the epoxy putty between your hands and create a long and narrow „worm”. Install the putty around the joint and form smooth transition before applying the bandage.

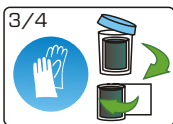
## REPAIR PROCEDURE WITH PIPE FLOW



1 **Tape can be installed if the leakage pressure does not exceed approx. 1,3 bar.**

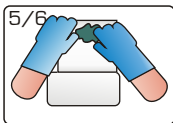


2 Dull the surface that is to be repaired using file or sandpaper. In case of PVDF, polyethylene and polypropylene pipes use a saw blade to get the chequered pattern required.



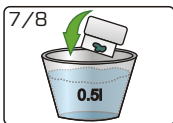
3 Put on the latex gloves.

4 Take the epoxy putty out of the plastic container. Remove the protective film.



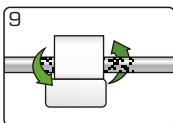
5 Mold the epoxy putty until it is smooth and dark grey and until it becomes warm (approx. 20 seconds).

6 Fill the prepared container with water.



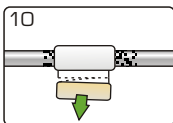
7 Rip the aluminium bag apart along the incision. Take out the bandage. Press the putty firmly into the bandage about 10 cm from the end. Push and flatten the epoxy into the fiberglass from all sides.

8 Dip bandage with epoxy putty in the water for 5 seconds. Squeeze the roll of bandage hard twice and take it out of the water.



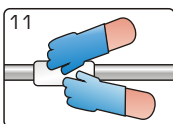
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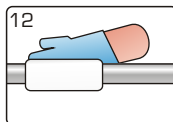
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## ATTENTION

**Precautions:** Epoxy putty resins and ammonia may irritate skin. Wash hands with soap and water after use. In case of eye contact, flush with plenty of water and seek immediate medical attention. May be harmful if swallowed. Keep out of reach of children. Refer to MSDS for more information.

MF 40 Pipe Repair Kit may cause eye irritation. Avoid eye contact. Flush eyes with plenty of water and seek immediate medical attention. Handle uncured product with the gloves provided. Prolonged skin contact with uncured material may cause skin irritation. Should skin contact occur, wash with non-abrasive soap and water. Avoid prolonged breathing of vapours from uncured material.

**WARRANTIES:** The following is made in lieu of all warranties, expressed or implied - Seller's and Manufacturer's only obligation shall be to replace such quantity of the product as is proven to be defective. Neither seller nor manufacturer shall be liable for any injury, loss nor damage, direct or consequential, arising out of the use of or inability to use the product. Before using, user shall determine the suitability of the product for its intended use and the user shall assume all risks and liabilities whatsoever in connection therewith. The foregoing may not be altered except by a written agreement signed by a representative of the Seller and the Manufacturer.



Keep away from  
direct sunlight



Keep away  
from children



Irritant