



REPAIR PROCEDURE WITH PIPE FLOW

- 1 The 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 sealed plastic bag. 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.
- 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 whole of the part of the pipe being repaired should be smooth and have the colour of ivory.

ATTENTION !

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. A couple of rolls of bandage can be applied on one place, if needed (refer to the following table). In case of leakage at tee-joint, roll the epoxy putty between your hands and create a long and narrow "worm". Using the putty fill the space into the joint and form smooth transition before applying the bandage.

MF40 EPOXY PUTTY

CONTAINS: SILICON DIOXIDE, CALCIUM CARBONATE, EPOXY RESIN, DIETHYLENETRIAMINE, METHYL ACRYLATE, PYROMELLITIC DIANHYDRIDE.

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life with long lasting effects. Do not breathe dust/fume/gas/mist/vapours or spray. Wash thoroughly after handling. Wear protective gloves, protective clothing and eye or face protection. In case of inadequate ventilation wear respiratory protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Store locked up. Keep out of reach of children.

IF SWALLOWED: Rinse mouth. Do not induce vomiting. **IF ON SKIN:** Remove / Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

SHELF LIFE: 3 years (if stored properly).



MF40 WATER ACTIVATED BANDAGE

CONTAINS: POLYURETHANE RESIN WHICH CONTAINS THE ISOCYANATES, FIBERGLASS.

Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Do not breathe dust/fume/gas/mist/vapours or spray. Wash thoroughly after handling. Wear protective gloves, protective clothing and eye or face protection. Contaminated work clothing should not be allowed out of the workplace. Store in original packing. Keep out of reach of children.

SHELF LIFE: 3 years (if stored properly).



MAREFLEX®
SOLAS TAPES DESIGNED FOR MARINE APPLICATION

MF40 PIPE REPAIR KIT

MANUAL VER. 5



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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.

PIPE REPAIR KIT - MEASUREMENT TABLE

	number of rolls (roll dimension mm x m)		
Pipe diameter	3,5 bar 10 layers of wrapping	10 bar 15 layers of wrapping	28 bar 20+ layers of wrapping
12,5 mm	1 (50mm x 1,5m)	1 (50mm x 1,5m)	1 (50mm x 1,5m)
19 mm	1 (50mm x 1,5m)	1 (50mm x 1,5m)	1 (50mm x 1,5m)
25 mm	1 (50mm x 1,5m)	1 (50mm x 1,5m)	1 (50mm x 3,6m)
32 mm	1 (50mm x 1,5m)	1 (50mm x 3,6m)	1 (50mm x 3,6m)
38 mm	1 (50mm x 1,5m)	1 (50mm x 3,6m)	1 (50mm x 3,6m)
50 mm	1 (50mm x 3,6m)	1 (50mm x 3,6m)	1 (50mm x 3,6m)
63 mm	1 (50mm x 3,6m)	1 (50mm x 3,6m)	2 (50mm x 3,6m)
75 mm	1 (50mm x 3,6m)	1 (50mm x 3,6m)	2 (50mm x 3,6m)
88 mm	2 (75mm x 2,7m)	2 (75mm x 2,7m)	3 (75mm x 2,7m)
100 mm	2 (75mm x 2,7m)	2 (75mm x 2,7m)	3 (75mm x 2,7m)
125 mm	2 (75mm x 2,7m)	3 (75mm x 2,7m)	3 (75mm x 2,7m)
150 mm	2 (75mm x 2,7m)	3 (75mm x 2,7m)	4 (75mm x 2,7m)
200 mm	3 (75mm x 2,7m)	4 (75mm x 2,7m)	5 (75mm x 2,7m)
250 mm	3 (100mm x 3,6m)	4 (100mm x 3,6m)	5 (100mm x 3,6m)
300 mm	3 (100mm x 3,6m)	4 (100mm x 3,6m)	6 (100mm x 3,6m)
350 mm	4 (100mm x 3,6m)	5 (100mm x 3,6m)	7 (100mm x 3,6m)
400 mm	4 (100mm x 3,6m)	6 (100mm x 3,6m)	8 (100mm x 3,6m)
450 mm	4 (100mm x 3,6m)	7 (100mm x 3,6m)	9 (100mm x 3,6m)

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

Product code	Tape dimension	Box weight	IMPA Code
MF-40-50 15	50mm x 1,5m	150g	812364
MF-40-50 36	50mm x 3,6m	200g	812362
MF-40-75 27	75mm x 2,7m	230g	812365
MF-40-100 36	100mm x 3,6m	300g	812363

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 50 mm x 3,6 m Pipe Repair Kit (MF40-5036) is needed. At least 10 layers of Pipe Repair bandage need to be applied around the leak.

CONTENT

The Marflex MF 40 Pipe Repair Kit includes:

- aluminium bag containing a polyurethane resin soaked bandage made of fiberglass
- package of epoxy putty
- pair of protective gloves
- installation instruction in English

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 glasses (not included) while applying the product.

YOU WILL NEED:

A small container of water, file or sandpaper and safety glasses.

MAINTENANCE AND STORING

Material should be stored in a dry, cool and well ventilated area (temperature +8°C +21°C and 45% - 55% relative humidity) and used within 36 months from the production date visible on the aluminium bag. It is recommended to store the product tightly closed in the original packaging. Mareflex provides the kit in individual cartoon boxes with English instruction inside.

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 sealed plastic bag. 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.
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In case of leakage at tee-joint, roll the epoxy putty between your hands and create a long and narrow "worm". Using the putty fill the space into the joint and form smooth transition before applying Pipe Repair Kit.

