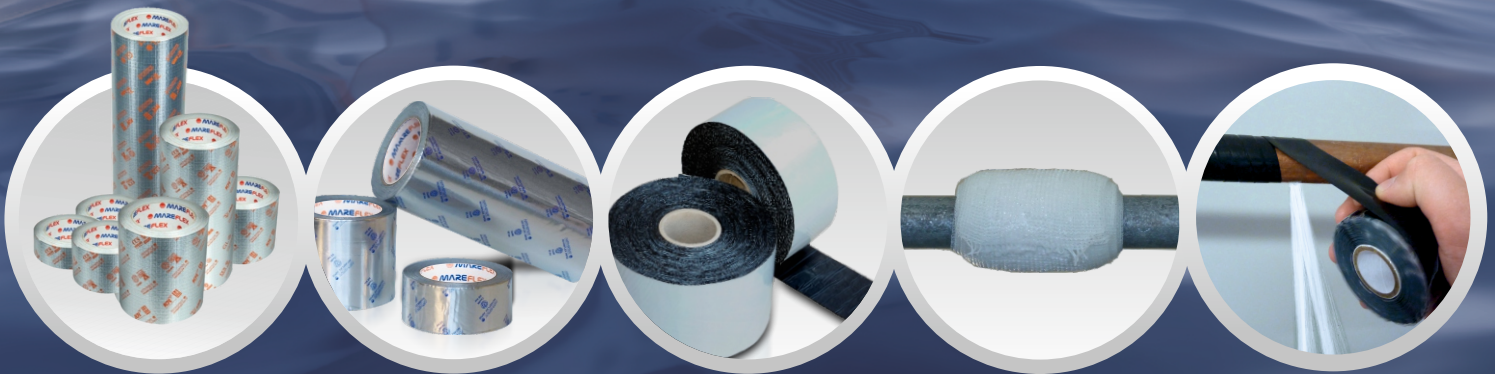




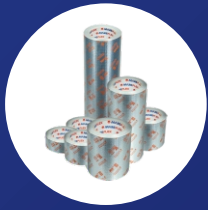
# MAREFLEX

SOLAS TAPES DESIGNED FOR MARINE APPLICATION



Approved by





## MF01 **Antispray Tape** ..... 3

High quality anti-splas tape designed to prevent the spraying of hot flammable substances.



## MF02 **High Pressure Antispray Tape ( 50 Bar )** ... 4

Anti-spalsh tape designed for high pressures – up to 50 bar.



## MF30 **Hatch Cover Tape** ..... 5

Bitumen tape used to protect cargo against leakage into the carriage area.



## MF40 **Pipe Repair Kit** ..... 6

High temperature resistant water activated tape for permanent repairs of the leaking pipes.



## MF50 **Anti Leak Tape** ..... 7

Self-fusing silicone tape for emergency and all purpose repairs.

## GENERAL DESCRIPTION

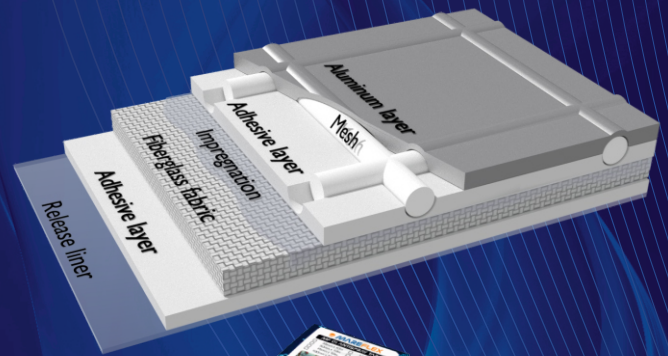
The Mareflex MF01 tape was designed with the aim of protecting pipeline installations against leakage in accordance with the latest SOLAS Consolidate Edition 2004 Regulation II-2/4.2.2.5.3. It is supposed to serve as protection against the possibility of flammable substances spraying on hot surfaces. Flammable substances once they come into contact with a hot surface may be the cause of fire. The MF01 tape can be used to direct a potential leakage to areas where flammable substance will not be dangerous.

The Mareflex MF01 material is available in sheet and tape format of various sizes. All versions come with an adhesive layer to ensure easy installation.

The Mareflex MF01 is equipped with a fire-retardant (self extinguishing) adhesive layer which further enhances the safety standards. The adhesive layer is very strong and resistant to high temperatures.

## TECHNICAL SPECIFICATION

The Mareflex MF01 is produced of materials of the highest quality selected in such a way as to ensure the best protection against high pressure and high temperature while maintaining the elasticity necessary for a quick and easy installation.



The picture on right shows the idea of the tape's structure in a schematic way:

## ADVANTAGES

- high-performance fiberglass fabric, additionally impregnated for higher pressure resistance
- being specially developed for this product the fire retardant adhesive layer gives additional protection against danger from fire
- an additional fiberglass mesh increases flexibility and makes installation easier

## PHYSICAL PROPERTIES AND PERFORMED TESTS

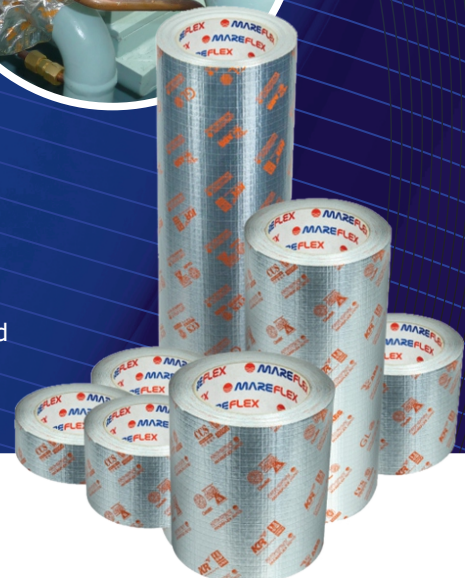
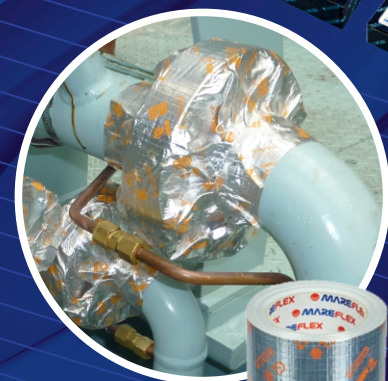
<b>Color:</b>	silver with orange overprint
<b>Thickness:</b>	410 micrometers (without release liner)
<b>Temperature range:</b>	up to 150 °C
<b>Shelflife:</b>	indefinite shelf life when properly stored

Physical prop.	Result	Regulation
<b>Tensile strength:</b>	1167 ± 50 N/50mm	(acc to EN ISO 1421:2001)
	137 lbs/inch	(acc to ASTM-882)
<b>Adhesion to steel:</b>	49 ± 5 N/50mm	(acc to EN ISO 2411:2002)
	5,49 lbs/inch	(acc to ASTM-3330)

## AVAILABILITY

Product code	Dimension	Product code	Dimension
MF01-35	35 mm x 10 meters	MF01-250	250 mm x 10 meters
MF01-50	50 mm x 10 meters	MF01-500	500 mm x 10 meters
MF01-100	100 mm x 10 meters	MF01-1000	1000 mm x 10 meters
MF01-140	140 mm x 10 meters		

\* other dimensions available on special demand



# MFO2 HIGH PRESSURE ANTISPRAY TAPE ( 50 BAR )

## GENERAL DESCRIPTION

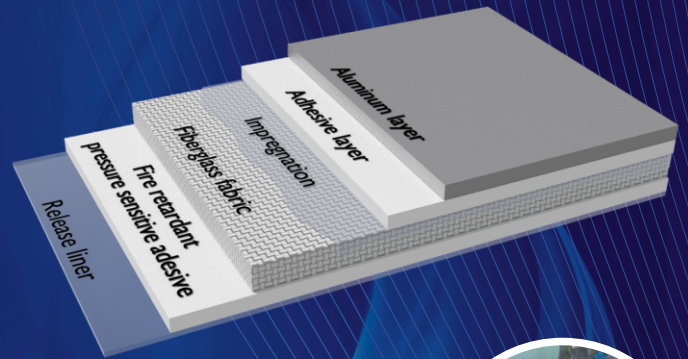
The Mareflex MF02 (50 bar) High Pressure Antispray Tape is an upgraded version of Mareflex MF 01 Antispray Tape. It was designed to protect high pressure (up to 50 bar) pipeline installations against the spraying of dangerous substances. The general purpose of the MF02 tape is the same as that of the so called "anti-splash" tape described in Regulation II-2/4.2.2.5.3 (SOLAS Consolidate Edition 2001), with the exception of the designated pressure, which is up to 50 bar.

Mareflex MF02 (50 bar) Antispray Tape is supposed to serve as fire protection in case of leakage of flammable substances transported through high-pressure pipelines. While the MF02 does not stop the leakage itself it enables the spraying of hazardous substances on hot surfaces to be stopped, therefore, preventing a possible breakout of fire.

## TECHNICAL SPECIFICATION

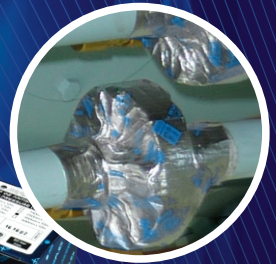
The Mareflex MF02 is produced of materials selected in such a way as to ensure protection against both high pressure and high temperature.

The picture on right shows the idea of the tape's structure in a schematic way:



## PACKAGING AND TRANSPORT

- The individual boxes are transported in the cumulative containers consisting of 9-100 individual boxes (depending on the product size).
- The containers are additionally covered with a moisture resistant protective foil.



## PHYSICAL PROPERTIES AND PERFORMED TESTS

<b>Color:</b>	silver with blue overprint
<b>Thickness:</b>	440 micrometers (without release liner)
<b>Maximum pressure:</b>	50 bar (49,35 atm)
<b>Temperature range:</b>	up to 150 °C
<b>Shelflife:</b>	indefinite, when properly stored

Physical prop.	Result	Regulation
<b>Tensile strength:</b>	2119 N ± 95	(acc to EN ISO 1421:2001)
<b>Elongation at break:</b>	4,0%	

## AVAILABILITY

Product code	Dimension
MF02-35	35 mm x 10 meters
MF02-50	50 mm x 10 meters
MF02-100	100 mm x 10 meters
MF02-140	140 mm x 10 meters
MF02-250	250 mm x 10 meters
MF02-500	500 mm x 10 meters

\* other dimensions available on special demand



# MF30 HATCH COVER TAPE

## GENERAL DESCRIPTION

The function of hatch cover tapes is to protect the metal hatch covers on carriage ships against leakage of water into the carriage area. Extreme weather conditions often damage hatch covers making them prone to leakage which may lead to the damage of goods being shipped.

Mareflex MF30 Hatch Cover Tape is a self-adhesive material which can protect goods against damage caused by water leakage. MF30 Tape is a very enduring material and guarantees protection in all weather conditions.

Mareflex MF30 is composed of a bituminous mass which has the appropriate viscosity and is protected by polypropylene foil from one side and a release liner from the other. The tape is available in 20 meters long rolls, 100mm and 150mm wide.

## INSTALLATION INSTRUCTIONS

- Before applying the Hatch Cover Tape clean the surface to which it is to be applied thoroughly and make sure that the hatch cover is free of any salt from the sea-spray.
- The surface must be dry before tape application.
- In cold weather conditions use a torch to heat up the tape to achieve a better adhesive performance. The flame should be applied to the black surface after removing the release liner. Be careful not to use the torch in a fire danger areas.
- Immediately after heating apply pressure to stick the tape onto the surface before the tape cools. This will ensure optimum adhesion.

## MAINTENANCE AND STORING

The material should be stored in a dry and cool area and used within 16 months of being received. It is recommended to store the rolls in the original packaging.

Mareflex provides the tapes in ready-to-sell, separate, carton boxes containing 3 rolls of MF30-100 or 2 rolls of MF30-150. Appropriate information is printed on each carton box.

## AVAILABILITY



Product code	Single roll size	Amount of rolls in a box	Box weight	Box size
MF30-100	100mm x 20m	3	15kg	26mm x26mm x 31mm
MF30-150	150mm x 20m	2		



# MF40 PIPE REPAIR KIT

## GENERAL DESCRIPTION

The Mareflex MF40 Pipe Repair Kit is an economic and easy to use kit used for repairing leaking pipes. The contents of the kit includes a fiberglass polyepoxide soaked resin bandage and a putty - a dough like mouldable substance.

MF40 can be applied to the most commonly used pipes: PVC, fiberglass, steel, copper, concrete and other. The kit can be used on pipes with internal pressure up to 400 psi (27 bar).

The installation process takes only a few minutes and the pipe is ready to be used within an hour.

## AVAILABILITY

Product code	Tape dimension	Box weight
MF40-5015	50mm x 1,5m	150g
MF40-5036	50mm x 3,6m	200g
MF40-7527	75mm x 2,7m	230g
MF40-10036	100mm x 3,6m	300g

## MEASUREMENT TABLE\*

Normal pipe diameter [mm]	Amount of rolls and size		
	3,5 bar 10 layers of wrapping [mm x m]	10 bar 15 layers of wrapping [mm x m]	28 bar 20+ layers of wrapping [mm x m]
12,5	1 (50x1,5)	1 (50x1,5)	1 (50x1,5)
19	1 (50x1,5)	1 (50x1,5)	1 (50x1,5)
25	1 (50x1,5)	1 (50x1,5)	1 (50x3,6)
32	1 (50x1,5)	1 (50x3,6)	1 (50x3,6)
38	1 (50x1,5)	1 (50x3,6)	1 (50x3,6)
50	1 (50x3,6)	1 (50x3,6)	1 (50x3,6)
63	1 (50x3,6)	1 (50x3,6)	2 (50x3,6)
75	1 (50x3,6)	1 (50x3,6)	2 (50x3,6)
88	2 (75x2,7)	2 (75x2,7)	3 (75x2,7)
100	2 (75x2,7)	2 (75x2,7)	3 (75x2,7)
125	2 (75x2,7)	3 (75x2,7)	3 (75x2,7)
150	2 (75x2,7)	3 (75x2,7)	4 (75x2,7)
200	3 (75x2,7)	4 (75x2,7)	5 (75x2,7)
250	3 (100x3,6)	4 (100x3,6)	5 (100x3,6)
300	3 (100x3,6)	4 (100x3,6)	6 (100x3,6)
350	4 (100x3,6)	5 (100x3,6)	7 (100x3,6)
400	4 (100x3,6)	6 (100x3,6)	8 (100x3,6)
450	4 (100x3,6)	7 (100x3,6)	9 (100x3,6)

\* Measurement table serves only as a guide. The product is applied manually and the result may vary depending on the experience of the person applying it.

## MAINTENANCE AND STORING

Material should be stored in a dry, cool and well ventilated area and used within 3 years from the production date. It is recommended to store the product in the original packaging.

Mareflex provides the kit in ready-to-sell, individual, cartoon boxes with English instruction inside.



# MF50 ANTI LEAK TAPE

## GENERAL DESCRIPTION

MF50 Anti Leak self-fusing silicon tape for emergencies and all-purpose repairs. MF50 can be applied on a wide range of surfaces, has many uses including leaking pipes and hoses, electrical connections, cables, hand tool handles and much more. Anti Leak Tape is resistant to UV, fuel, water, oils, acids, and wide range of solvents. The tape creates a permanent air-tight and water-tight seal immediately after application. It ensures anti-corrosive and electrical protection. It is very easy to remove and leaves no sticky residue on the elements it covered.



## PHYSICAL PROPERTIES

Material Type	Silicone rubber
Liner	PE film
Thickness (mm)	0,5
Temp. range - continuous	-45°C to 200°C
Temp. range - intermittent	-65°C to 260°C
Specific Gravity	1,25 g/ml
Tensile Strength	700 psi min
Elongation	400% min
Dielectric strength	400 Vpm min
Volume resistivity	$1 \times 10^{13}$ OHMs/cm
Pressure resistance	Approximately 10 – 12 bars*

\* requires multiple layer application

## AVAILABILITY

Product code	Tape dimension	Weight	Amount of rolls in a box
MF50-25	25mm x 5m	0,09kg	24
MF50-38	38mm x 5m	0,13kg	15
MF50-50	50mm x 5m	0,17kg	12

## INSTALLATION INSTRUCTIONS

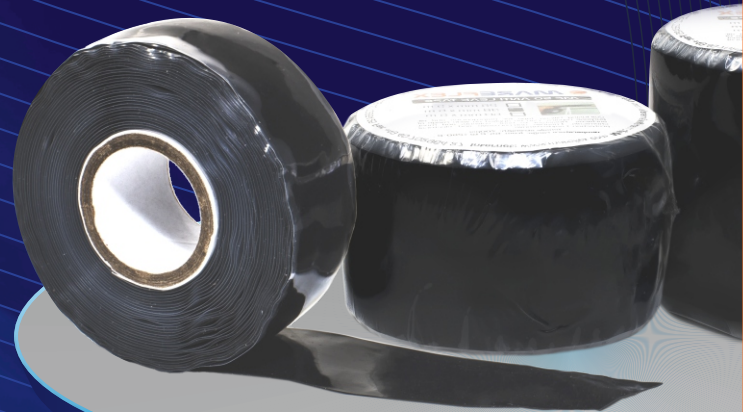
- Clean the surface being repaired from dirt, oil etc. before the application.
- Attach the beginning of the tape close to the damaged area and start wrapping around it (with tension).
- Keep stretching the tape, and continue installation with 50% overlap. Once overlapped the tape will fuse.
- Finish the wrapping around the problem area and once finished press the end firmly into place.
- For high pressure leaks, additional wrapping may be required. Most hose repairs can be repaired with 3-5 layers by wrapping 3 to 5 inches in each direction away from the leak point; however, additional strength can be added simply by wrapping more layers of the MF50 tape.
- For electrical wiring, it is not necessary to stretch tightly. In fact, it will be more resilient to abrasion when it is not stretched too tight.

## REMOVING

Cut the tape using scissors or a knife.

## MAINTENANCE AND STORING

It is suggested to store the MF50 tapes in a dry area at room temperature away from direct exposure to light. However, there is no defined storage period of MF50 tapes. According to customer experience these silicone tapes can be used effectively even after many years of storage.





SOLAS TAPES DESIGNED FOR MARINE APPLICATION

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