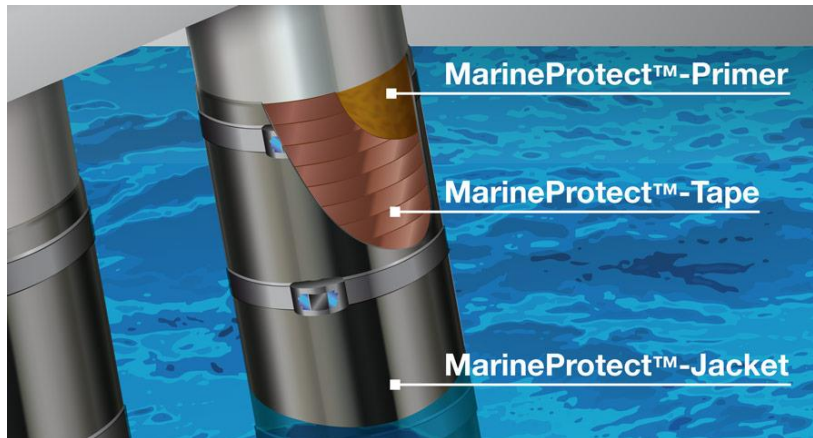


MarineProtect™-100



Product information



Special advantages:

- ✓ Adapts to different diameters.
- ✓ No water evacuation required.
- ✓ Can be applied without interruptions or waiting time.
- ✓ Consumption can be calculated for maximum cost effectiveness.
- ✓ Environmentally friendly. Complies with OECD aquatic guidelines 201, 202 and 203.

Protection against corrosion and weather for piles made of metal, concrete or wood and underwater pipes

For a century now, DENSO Group Germany has been representing experience, quality and reliability for corrosion prevention and sealing technology. The success of the internationally leading corporation is based on the development of the "DENSO-Tape", which was already patented in 1927 as the first product worldwide for the passive corrosion prevention of pipelines. Since then, the DENSO Group Germany has been establishing and guaranteeing the highest quality standards with technically trend-setting products. Research, development and production take place exclusively in Germany. Our employees continuously implement safe and individual solutions in a personal cooperation with the customer.

Product description

MarineProtect™-100 is a variable system solution that adapts to the changing dimensions of piles due to the effects of corrosion or erosion, providing protection against corrosion and weather conditions in coastal areas for **piles and pipes** that are fully or partly submerged in water.

The solution is ideal for **use in highly corrosive environments** in which conventional priming and coating systems fail to provide the required level of protection.

MarineProtect™-100 is a flexible system that can be used on **metal, concrete or wooden** piles and underwater pipelines. The solution adapts to suit round or hexagonal piles.

MarineProtect™-100 is easy to apply both on dry land or under water. There

is no need for the protected component to undergo a costly drying process or to wait for individual layers to cure, as is generally the case with other coating systems.

This makes the product highly cost effective, with a **controlled application method** that actively helps to **reduce costs**.

The solution is also an economical way to add protection to existing systems without removing previous coatings.

MarineProtect™-100 significantly **extends the service life** of pile constructions and underwater pipelines and reduces the costs involved in their restoration and repair.

To **protect the flora and fauna** living in our seas and lakes, MarineProtect™-100 complies with

the OECD aquatic guidelines 201, 202 and 203.

Material consumption:

MarineProtect™ primer:
approx. 350 g per m² surface

MarineProtect™ tape:
approx. 2 m² per m² surface

MarineProtect™ jacket:
Number of ready-made jackets depends on height of pile to be protected

Product processing:

Please follow the processing recommendations available separately for **MarineProtect™-100**.

Material

The **MarineProtect™-100** solution uses our tried-and-tested petrolatum-based corrosion prevention tapes, which have been renowned and trusted for their outstanding corrosion prevention characteristics for over 90 years. The tapes reliably keep moisture away from the steel surface and stop corrosion in its tracks. The outer protective coating provides excellent resistance against mechanical loads and weather conditions and is quick and easy to apply.

The **MarineProtect™ primer** is based on a **natural wax** that provides **outstanding coverage** on steel surfaces, even under water.

The water is displaced when spreading the product on the surface. Irregularities and cavities can be equalized and filled with the primer. The covered steel surface is reliably protected against corrosion.

MarineProtect™ tape is a petrolatum-based corrosion prevention tape that contains a strong polyester non-woven material. MarineProtect™ tape is wrapped in a spiral layer over MarineProtect™ primer. The water is displaced by an appropriate winding tension to create a dense and reliable corrosion prevention coating.

The applied corrosion protection is covered with the **MarineProtect™ jacket**, a protective coating made from strong, UV-resistant high-density polyethylene (HDPE). This jacket keeps outside stresses away from the corrosion prevention coating, guaranteeing long-lasting corrosion protection even when exposed to breakwater, strong winds and UV light. The MarineProtect™-100 system also includes an easy and reliable way to secure the MarineProtect™ jacket: the **Smart®Band tensioning belt system**.

Typical product properties

	Property	Unit	MarineProtect™ Typical value	Test method
Primer	Density	g/cm ³	approx. 0.90	ISO 2811
	Dripping point	°C (°F)	≥+100 (≥+210)	DIN 51801
Tape	Thickness	mm	1.2	-
	Dripping point	°C (°F)	≥+120 (≥+248)	DIN 51801
	Saponification number	mg KOH/g	≤10	DIN EN 12068
Jacket	Thickness	mm	approx. 2	
	Elongation at break	%	≥ 700	ASTM D 638
	Tensile strength	N/mm ²	≥ 21	ASTM D 638
System	Impact resistance	J	≥ 15	DIN EN 12068

Ordering Information & Packaging

MarineProtect™ primer: 10 kg bucket

MarineProtect™ tape: Roll length 10 m

Width (mm)	Rolls per box (pcs)	Surface area (m ²) per box	Total tape length (metres) per box
50	12	6	120
100	6	6	60
200	4	8	40

Other dimensions available on request.

MarineProtect™ jacket

Width (mm)	Length (mm)	Minimum theoretical Smart®Band required per jacket (pcs)
950	based on customer requirements	6
1150		7
1900		11

Storage

MarineProtect™ can be stored in its unopened original packaging for at least 60 months from the date of manufacture.

Storage temperature: ≤ +40°C (+104°F)

Store in a dry location and do not rest anything against the front of the product.

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