



DGE GROUP

**Merbenit**<sup>®</sup>

There is Merbenit in there.  
Your marine product.

Bonding and sealing  
for the marine industry

**merz+benteli ag**





## We are bonding with reliability

We are a long-term and reliable partner for successful shipbuilders and suppliers. We are specialised in elastic sealants and adhesives, providing a wide range of consultancy services and high-quality certified products.



«Both our team and customers on board continue to be impressed by the lasting quality and beautiful appearance of our ships. Merbenit sealants and adhesives play an important part in this.»

Jürg Lüthi, Head of Maintenance  
Lake Brienz dockyard, BLS AG

Merbenit sealants and adhesives are designed to provide unbeatable quality and efficiency. Merbenit is easy to work with and significantly reduces the time required for preparatory work and finishing.

The Merbenit range includes one-component sealants and adhesives that cure to elastomers after application. Merbenit is available in a variety of standard packaging.

Merbenit is environmentally friendly and meets the high quality standards of the International Maritime Organization (IMO).

### Table of contents

Teak deck caulking	4
Surface adhesive for ship decks	5
Sealant for windows and portholes	6
Sealant adhesive for fittings and more	7



## Teak deck caulking

Merbenit DC25 is a joint sealant specifically designed for caulking timber decks on ships and yachts.

The sealant is weatherproof, UV resistant and never loses its elasticity. Merbenit DC25 is also remarkably easy to apply and minimises reworking requirements.

### Applications

Caulking of timber strips made from teak, Sipo, Iroko, pitch pine, Doussie and more.

### Characteristics

Efficient application

Quick and easy grinding

UV and weather resistant

Long-lasting durability

### Consistency

Tooling time at + 23 °C, 50 % rh

Shore A hardness, DIN 53505,  
Storage 21 days at + 23 °C and 50 % rh

Tensile strength DIN 53504 S2,  
Storage 7 days at + 23 °C and 50 % rh

Elongation at break DIN 53504

### Merbenit DC25

pasty, not stable in vertical joints

max. 15 minutes

30

approx. 1.6 N/mm<sup>2</sup>

approx. 400 %

## Surface adhesive for ship decks

Merbenit DB50 is a permanently elastic surface adhesive for bonding large areas on wooden or synthetic ship decks.

Merbenit DB50 is a one-component adhesive, thus it is excellently workable. Thanks to its thixotropic properties, Merbenit DB50 helps strips and flooring to adhere immediately and precisely.

### Applications

Bonding of wooden and synthetic flooring on ship structures made from glass-reinforced plastic (GRP), aluminium, steel or timber.

### Characteristics

Easy application with a notched trowel

Minimal reworking and cleaning required

Adheres to many different materials

Merbenit DB50
good ridge, efficiently trowelable
max. 60 minutes
38
approx. 1.6 N/mm <sup>2</sup>
approx. 200%



## Sealant for windows and portholes

Merbenit UV27 is a permanently elastic sealant that adheres to all common materials including self-cleaning glass.

The sealant is suitable for glazing windows and portholes, as well as for joint sealing and flexible bonding. Merbenit UV27 is exceptionally resistant to UV, extreme weather and typical maritime conditions.

### Applications

Window and porthole glazing

Joint sealing of various kinds

Flexible bonding

### Characteristics

Exceptionally resistant to maritime conditions

Excellent adhesion – adhesion promoter usually not required

Highly elastic

### Consistency

Tooling time at + 23 °C, 50 % rh

Shore A hardness, DIN 53505,

Storage 21 days at + 23 °C and 50 % rh

Tensile strength DIN 53504 S2,

Storage 7 days at + 23 °C and 50 % rh

Elongation at break DIN 53504

### Merbenit UV27

≤ 3 mm

max. 15 minutes

20

approx. 1.3 N/mm<sup>2</sup>

approx. 500%

## Sealant adhesive for fittings and more

Merbenit MB55 is a high-quality adhesive that supports even the most dynamic loads.

It is suited for use with flexible, heavily loaded joints. Merbenit MB55 also exhibits excellent sealing properties, making it the adhesive of choice for fittings, stringers, floor plates and more.

### Applications

Sealing and bonding of skirting boards, hatches, deck fittings

Bonding of frames, stringers and floor plates

### Characteristics

High strength

Adheres to all common materials

Compatible with paint

Merbenit MB55
stable
max. 10 minutes
55
approx. 2.1 N/mm <sup>2</sup>
approx. 400%

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