



DGE GROUP

ANTALA Ltd.

Technical Products for Industry



Merbenit

Get stuck on Merbenit. Your adhesive.

Bonding and sealing for industry,
transportation and marine applications.

merz+benteli ag





When it comes to adhesives, merz+benteli ag is a pioneer

merz+benteli is the leading technical company in the field of permanently elastic adhesives and sealants based on silane-modified polymers. The SMP products, manufactured exclusively in Switzerland, are highly flexible, solvent-, isocyanate- and silicone free and are characterised by a wide adhesion range. merz+benteli develops, produces and distributes permanently elastic adhesives and sealants for all requirements and applications.

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Technology sets Merbenit apart

Merbenit is the brand for industrial bonding and sealing products based exclusively on state-of-the-art SMP technology. Merbenit products combine exceptional strength with elasticity, adhere to a wide variety of materials and are all environmentally friendly. The Merbenit product line contains a wide range of universal, special as well as one and two component products.

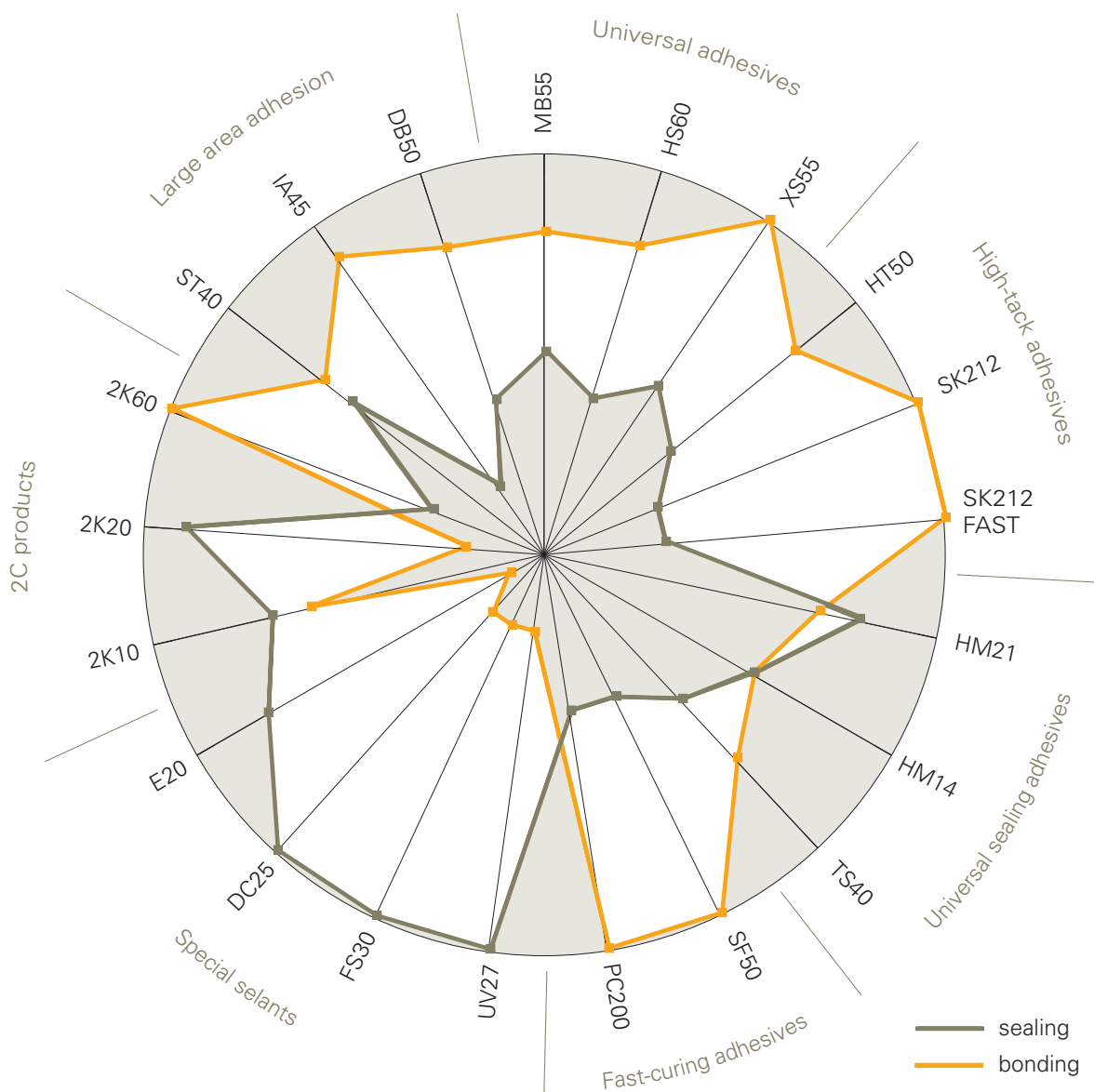
Advantages

- Combines exceptional strength with elasticity
- Adheres to a variety of substrates and surfaces
- Adhesion promoter usually not required
- Compatible with paints
- Free of isocyanates, solvents, halogens and silicone



Products labelled with this icon are a part of our core range and represent the latest technology. Samples and smaller orders are available upon request in most colours and packaging.

Merbenit sealants and adhesives





Universal adhesives

Merbenit universal adhesives are characterised by their extreme versatility. They combine high strength and elasticity with an extensive adhesion range. Suitable for statically and dynamically loaded bondings, they can absorb stress and compensate for various thermal expansions of the bonded materials.

Products

Merbenit MB55 for bonds in the marine industry

Merbenit HS60 is approved for use in the food industry as well as for ventilation systems

Merbenit XS55 for high-strength bonds with a tensile strength of 5.5 N/mm²

Merbenit MB55

The marine adhesive and sealant

Merbenit MB55 is a high-strength elastic adhesive. It adheres to various materials and surfaces and is particularly resistant to environmental influences.

The adhesive fulfils the requirements of the International Maritime Organisation (IMO). Merbenit MB55, which is easy to process and compatible with paints, offers a wide adhesion range, elasticity and high mechanical strength. The adhesive is adjustable with a high tolerance.

Examples of use

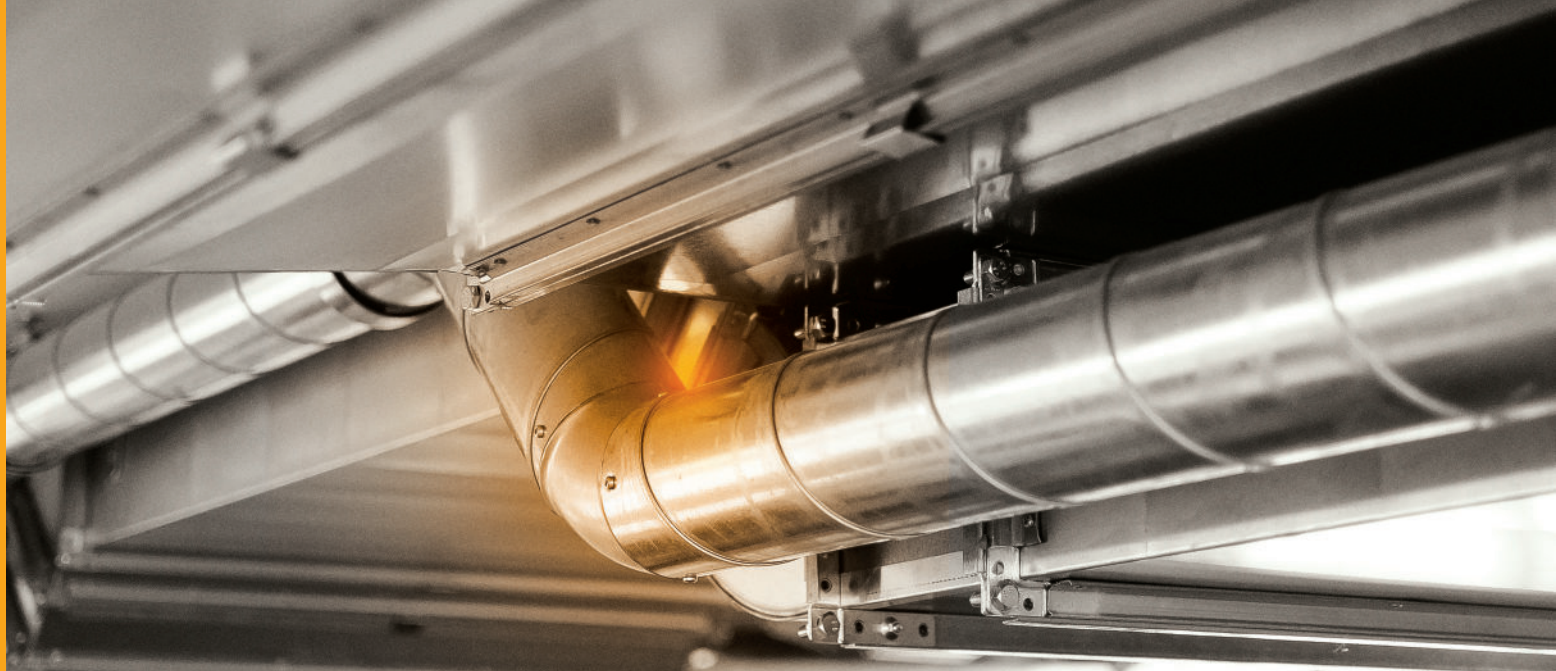
Flexible bonding of hatches, skirting boards, fittings, plates, sandwich components, panels, covers, screens, etc.

Fulfils the following standards

IMO FTPC Parts 2+5

	Merbenit MB55
Shore A hardness	55
Elongation at break	approx. 300 %
Tensile strength	approx. 2.1 N/mm ²
Consistency	stable
Tooling time	max. 10 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh



Merbenit HS60

The universal adhesive

Merbenit HS60 is a high modulus, elastic adhesive with high strength. It adheres to a wide range of materials.

Merbenit HS60 has been approved for use in the food industry and for ventilation and air-conditioning systems. The product is permanently elastic from -40 °C to +90 °C and possesses high mechanical strength. It is furthermore characterised by its very good sealing properties.

Examples of use

Flexible bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis-, wagon-, vehicle- and container construction

Bonding in areas involved with the food processing industry

Fulfils the following standards

ISEGA (food production area)

AC-plants according to VDI 6022

eco-bau 1st Priority ECO-BKP

	Merbenit HS60
Shore A hardness	60
Elongation at break	approx. 250 %
Tensile strength	approx. 3.3 N/mm ²
Consistency	stable
Tooling time	max. 10 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh

Merbenit XS55

The extra strong constructive adhesive

Merbenit XS55 is a highly elastic adhesive with an especially high strength of 5.5 N/mm², which builds up very quickly. It adheres to various materials and surfaces.

This high elasticity adhesive offers excellent sealing properties and can be easily processed. Merbenit XS55 is impact and vibration resistant, grindable and coatable. Furthermore, it is compatible with paints and non-corrosive on surfaces.

Examples of use

High-strength and flexible bondings in the area of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit XS55
Shore A hardness	58
Elongation at break	approx. 350 %
Tensile strength	approx. 5.5 N/mm ²
Consistency	stable
Tooling time	max. 6 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh



High-tack adhesives

Merbenit high-tack adhesives offer a high initial tack and a quick strength build-up. When using Merbenit high-tack adhesives, fixating assembly parts is largely unnecessary. Apart from that, and depending on the application, it allows direct further processing.

Products

Merbenit HT50 has a high extrusion rate

Merbenit SK212 with a drive-away time of 60 minutes

Merbenit SK212 FAST with a drive-away time of 30 minutes

Merbenit HT50

The high-tack adhesive

Merbenit HT50 is a permanently elastic adhesive with high initial tack. It adheres to many materials and surfaces and is also approved for use in the food industry.

The adhesive offers a high initial tack and, at the same time, good extrusion properties, has good sealing properties and is highly ageing-resistant. Merbenit HT50 is compatible with paints, stable, adjustable and permanently elastic from -40 °C to +90 °C.

Examples of use

Flexible, immediate supporting bond in the area of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis-, wagon-, vehicle- and container construction

For non-supported bonds and where a fast, continuous working process is required

Bonding in areas involved with the food processing industry

Fulfils the following standards

ISEGA (food production area)

eco-bau 1st Priority ECO-BKP

	Merbenit HT50
Shore A hardness	50
Elongation at break	approx. 250 %
Tensile strength	approx. 2.9 N/mm ²
Consistency	stable
Tooling time	max. 8 min.
Curing rate after 24 h	≥ 3.0 mm

Measurements at +23 °C and 50 % rh



Merbenit SK212

The 60' windscreen adhesive

Merbenit SK212 is an elastic adhesive with high initial tack and strength. It is especially suitable for bondings that require quick handling strength.

The elastic adhesive is characterised by its high curing speed and very high mechanical strength. Merbenit SK212 is Euro-NCAP- and FMVSS 212-certified with a drive-away time of 60 minutes. It is adjustable, impact and vibration resistant and bridges thermal expansion and material tension.

Examples of use

Bonding of windscreens in vehicle-, wagon- and cabin construction

For non-supported bonds and where a fast, continuous working process is required

Flexible, immediate supporting bond in the area of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

Fulfils the following standards

FMVSS 212 drive-away time 60'

Euro-NCAP frontal impact 64 km/h

EMICODE EC1^{Plus} R

Eurofins Indoor Air Comfort Gold

	Merbenit SK212
Shore A hardness	55
Elongation at break	approx. 300 %
Tensile strength	approx. 3.3 N/mm ²
Consistency	stable
Tooling time	max. 15 min.
Curing rate after 24 h	≥ 3.5 mm

Measurements at +23 °C and 50 % rh

Merbenit SK212 FAST

The 30' windscreen adhesive

Merbenit SK212 is an elastic adhesive with high initial tack and strength. It is especially suitable for bondings that require quick handling strength.

The adhesive offers tremendous mechanical strength, excellent sealing properties and a quick curing speed. Merbenit SK212 is Euro-NCAP- and FMVSS 212-certified with a drive-away time of 30 minutes. Merbenit SK212 FAST is suitable for powder- and thermocoating and short-term resistant to temperatures up to +200 °C. It bridges thermal expansion and material tension.

Examples of use

Bonding of windscreens in vehicle-, wagon- and cabin construction

For non-supported bonds and where a fast, continuous working process is required

Flexible, immediate supporting bond in the area of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis-, wagon-, vehicle- and container construction

Fulfils the following standards

FMVSS 212 drive-away time of 30'

EMICODE EC1^{Plus} R

	Merbenit SK212 FAST
Shore A hardness	55
Elongation at break	approx. 325 %
Tensile strength	approx. 3.0 N/mm ²
Consistency	stable
Tooling time	max. 10 min.
Curing rate after 24 h	≥ 3.5 mm

Measurements at +23 °C and 50 % rh



Universal sealing adhesives

merz+benteli offers a wide range of universal, fast-curing and permanently elastic SMP-based one component sealing adhesives. Merbenit universal sealing adhesives are characterised by their well-balanced properties and cost effectiveness. They offer exceptional adhesive qualities and allow for easy processing.

Products

Merbenit HM21 is the ideal mix between adhesive and sealant

Merbenit HM14 is a universal sealing adhesive

Merbenit TS40 is a sealing adhesive for transparent applications

Merbenit HM21

The premium adhesive and sealant

Merbenit HM21 is an elastic adhesive with excellent sealing properties. Thanks to its SMP base, the product is universally applicable and highly durable.

Merbenit HM21, compatible with paints, offers high elasticity, excellent mechanical strength and a long tooling time. It is grindable, coatable and non-corrosive on surfaces. This sealing adhesive offers a wide adhesion range and exceptional sealing properties.

Examples of use

Flexible bonding and sealing in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit HM21
Shore A hardness	45
Elongation at break	approx. 350 %
Tensile strength	approx. 2.5 N/mm ²
Consistency	stable
Tooling time	max. 30 min.
Curing rate after 24 h	≥ 3.0 mm

Measurements at +23 °C and 50 % rh



Merbenit HM14

The universal adhesive and sealant

Merbenit HM14 is a universal elastic adhesive with a chemically neutral curing system and excellent sealing properties.

This sealing adhesive offers a wide adhesion range, good compatibility with paints and excellent sealing properties. Merbenit HM14 makes for easy and long processing and is grindable, coatable, and non-corrosive on surfaces.

Examples of use

Flexible bonding and sealing in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

Weak connection joints and bonding applications

Fulfils the following standards

EMICODE EC1^{Plus} R

Eurofins Indoor Air Comfort Gold

	Merbenit HM14
Shore A hardness	40
Elongation at break	approx. 250 %
Tensile strength	approx. 1.8 N/mm ²
Consistency	stable
Tooling time	max. 20 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh

Merbenit TS40

The transparent adhesive and sealant

Merbenit TS40 is a transparent, elastic adhesive with excellent sealing properties. It adheres to various materials and surfaces indoors.

Merbenit TS40 is synonymous with simple processing and finishing. The product is compatible with paints and is permanently elastic between -40 °C and +90 °C.

Examples of use

Bonding of parts where a coloured adhesive would be distracting

Flexible bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

Fulfil the following standards

EMICODE EC1^{Plus} R

Eurofins Indoor Air Comfort Gold

	Merbenit TS40
Shore A hardness	42
Elongation at break	approx. 225 %
Tensile strength	approx. 2.8 N/mm ²
Consistency	stable
Tooling time	max. 6 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh



Fast-curing adhesives

The fast-curing Merbenit adhesives are characterised by an extremely quick strength build-up and a superb final strength. These properties make sure that the bonded elements can be quickly processed and exposed to strain. Because these adhesives are based on neutrally cross-linking polymers, they can be used without thermal or chemical pre-treatment of the assembly part.

Products

Merbenit SF50 cures quickly and can be used immediately

Merbenit PC200 offers extreme temperature resistance

Merbenit SF50

The rapid construction adhesive

Merbenit SF50 is a permanently flexible adhesive with high and especially quick strength build-up. The product adheres to various materials and surfaces.

Merbenit SF50 is suitable for powder- and thermocoating and short term resistant to temperatures up to +200 °C. It is compatible with paints, adjustable and non-corrosive on surfaces. Furthermore, the product offers excellent sealing properties.

Examples of use

Flexible bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit SF50
Shore A hardness	50
Elongation at break	approx. 200 %
Tensile strength	approx. 3.4 N/mm ²
Consistency	stable
Tooling time	max. 8 min.
Curing rate after 24 h	≥ 3.5 mm

Measurements at +23 °C and 50 % rh



Merbenit PC200

The high temperature resistant adhesive

Merbenit PC200 is a short-term high temperature resistant, fast-curing, elastic sealant and adhesive with especially high and fast strength build-up, even at low temperatures.

The high temperature resistance up to 240 °C, allows for the elastic bonding of components which are exposed to short-term high temperatures in the production procedure or at the end application. Furthermore, Merbenit PC200 is compatible with paints, is adjustable, has great sealing properties and is non-corrosive on surfaces.

Examples of use

After curing completely, the product can be heated for a short time up to 240 °C for powder- and thermocoating

Flexible bonding and sealing in the areas of metal, apparatus, machine and plane construction, etc.

Fulfils the following standards

Eurofins Indoor Air Comfort Gold

The recommended maximum processing conditions based on tensile shear strength

Test specimen: Anodised aluminium

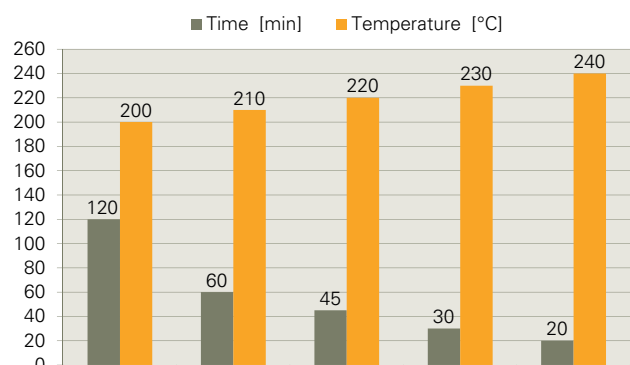
Pre-storage: 9 days at 23 °C and 50 % rh

Oven: Linn High Term 400 heating chamber (muffle furnace)

Paint: none

	Merbenit PC200
Shore A hardness	57
Elongation at break	approx. 200 %
Tensile strength	approx. 3.7 N/mm ²
Consistency	stable
Tooling time	max. 8 min.
Curing rate after 24 h	≥ 2.5 mm

Measurements at +23 °C and 50 % rh



Special sealants

Special applications such as glass frame sealing, fire insulation or sealings which need a heat or cold insulation, require specific products; merz+benteli offers various special sealants to fulfil these requirements. Furthermore, they are compatible with paints and offer excellent UV and weather resistance.

Products

Merbenit UV27 is suitable for self-cleaning glass

Merbenit E20 has a very low specific weight

Merbenit FS30 is flame-retardant

Merbenit DC25 is suitable for joints in the marine field



Merbenit UV27

The premium sealant for glazing

Merbenit UV27 is an elastic joint sealant that adheres to many materials, especially to self-cleaning glass.

Merbenit UV27 fulfils the requirements of the International Maritime Organisation (IMO). The permanently elastic joint sealant is very resistant to UV radiation, ageing and environmental influences. Furthermore it is paintable as well as shock- and vibration-resistant.

Examples of use

Sealing in areas of intense weather conditions and UV exposure

Suitable for connection and expansion joints in solar technology, air conditioning and ventilation, vehicle and apparatus construction, cabin construction, marine (e.g. sealing of portholes) and offshore applications

Sealing wood, metal and plastic windows

Sealing self-cleaning glass

Fulfils the following standards

IMO FTPC Parts 2+5

ISO 11600-G25-LM

SGG Bioclean

	Merbenit UV27
Shore A hardness	20
Elongation at break	approx. 500 %
Tensile strength	approx. 1.5 N/mm ²
Consistency	stable
Tooling time	max. 15 min.
Curing rate after 24 h	≥ 3.0 mm

Measurements at +23 °C and 50 % rh

Merbenit FS30

The fire protection sealant

Merbenit FS30 is a flame-retardant, elastic and paintable sealant. The product adheres to various materials and surfaces.

Merbenit FS30 fulfils the highest branch standards as well as the requirements of the International Maritime Organisation (IMO). Furthermore, the product is permanently elastic between -40 °C and +90 °C and has excellent sealing properties. Merbenit FS30 allows for easy processing and offers minimal shrinkage. The sealant fulfils numerous fire safety standards and is very well suited for Miner-gie-ECO.

Examples of use

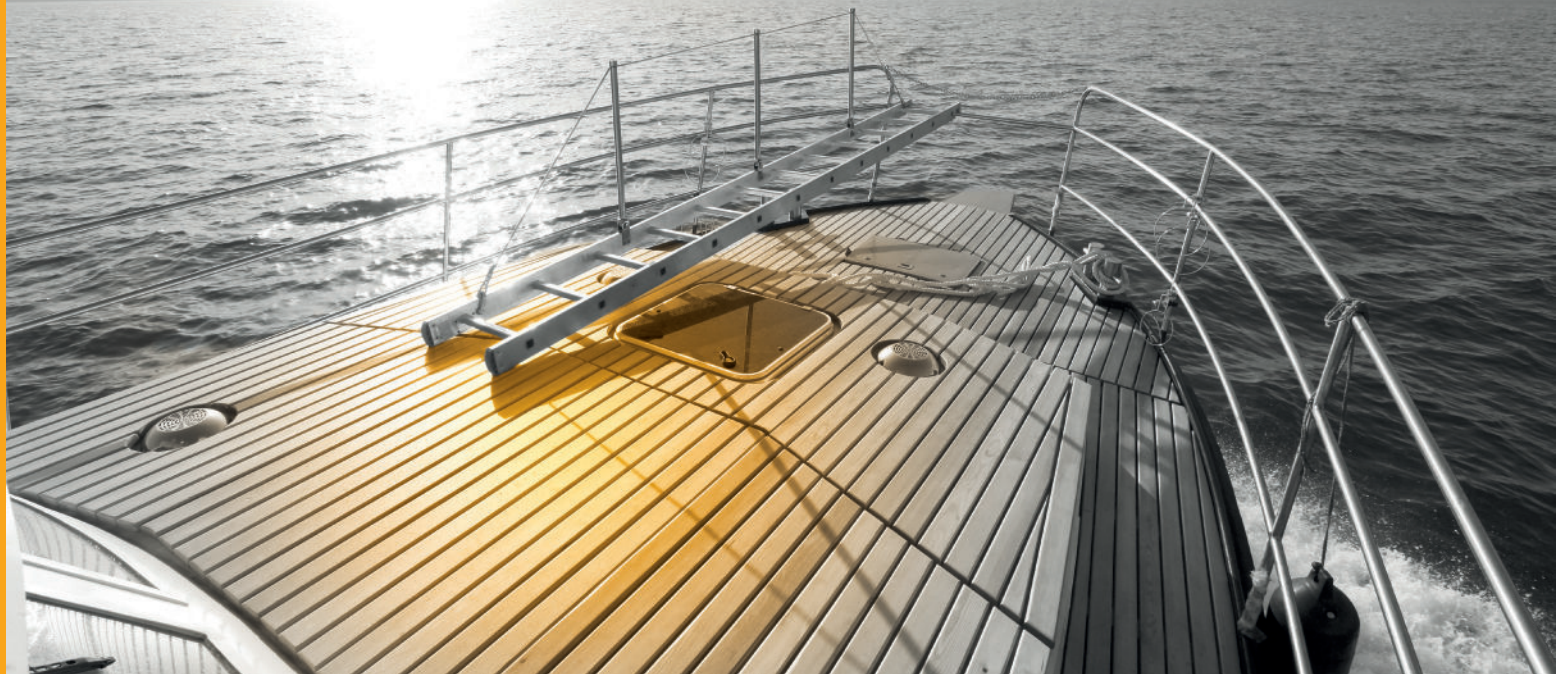
General fire protection and coverage
Sealing of cable channels, pipe conduits and casings
Connection joints

Fulfils the following standards

DIN 4102 B1
VKF fire index 5.3
VKF fire-resistance class S90
IMO FTPC Parts 2+5
ISO 11600-F20-HM
EMICODE EC1^{Plus} R
Eurofins Indoor Air Comfort Gold
eco-bau 1st Priority ECO-BKP

	Merbenit FS30
Shore A hardness	26
Elongation at break	approx. 225 %
Tensile strength	approx. 1.5 N/mm ²
Consistency	stable
Tooling time	max. 15 min.
Curing rate after 24 h	≥ 3.0 mm

Measurements at +23 °C and 50 % rh



Merbenit DC25

The deck caulker

Merbenit DC25 is an elastic sealant for the caulking of teak decks in ship building. Merbenit DC25 is in particular resistant to environmental influences and fulfils the requirements of the International Maritime Organisation (IMO).

Merbenit DC25 allows for easy processing, quick grinding and is compatible with paints. The sealant is characterised by a high elasticity, a high mechanical strength and a very wide adhesion range.

Examples of use

Suitable for sealing of teak, pitch pine, oak, sipo etc.
Sealing in areas of intense weather conditions and UV exposure

Fulfils the following standards

IMO FTPC Parts 2+5

	Merbenit DC25
Shore A hardness	30
Elongation at break	approx. 600 %
Tensile strength	approx. 1.6 N/mm ²
Consistency	pasty, not stable in vertical joints
Tooling time	max. 20 min.
Curing rate after 24 h	≥ 2.5 mm

Measurements at +23 °C and 50 % rh

Merbenit E20

The lightweight sealant

With a density of 0.70 g/cm³, Merbenit E20 is 50% lighter than other products. This permanent elastic adhesive and sealant is suitable for many industry and automotive applications.

Other special features are its vibration, noise and thermal insulation properties. Merbenit E20 is tolerance compensating, permanently elastic and tension equalizing.

Examples of use

Absorption of vibrating elements

Isolation of voids and noise, heat and cold insulation in vehicle construction

Chassis sealing

Car interior bonding which are not exposed to strong stress

	Merbenit E20
Shore A hardness	36
Elongation at break	approx. 100 %
Tensile strength	approx. 1.6 N/mm ²
Consistency	stable
Tooling time	max. 35 min.
Curing rate after 24 h	≥ 3.5 mm

Measurements at +23 °C and 50 % rh



2C products

Merbenit two-component sealants cure after mixing, regardless of the humidity and surrounding temperatures, to become elastomers. Heavy loads can be applied after a few hours, even if the layer is thick or the material is not moisture permeable. These properties offer additional application opportunities as compared to one-component products.

Products

Merbenit 2K10 offers a long tooling time

Merbenit 2K20 is self levelling

Merbenit 2K60 only needs very little time before becoming strong enough to be handled

Merbenit 2K10

The 2C universal adhesive

Merbenit 2K10, a two-component adhesive, achieves high strength regardless of the humidity. It adheres to various materials and surfaces, even if they are not breathable.

Merbenit 2K10 has a long processing time, a chemically neutral curing system and is permanently elastic between - 40 °C and + 90 °C. Furthermore, Merbenit 2K10 offers tremendous sealing properties with excellent resistance to weathering and ageing. The adhesive is virtually odourless and tolerance compensating.

Examples of use

Flexible bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit 2K10
Shore A hardness	45
Elongation at break	approx. 300 %
Tensile strength	approx. 2.4 N/mm ²
Consistency	stable
Tooling time	max. 30 min.

Measurements at +23 °C and 50 % rh



Merbenit 2K20

The 2C casting compound

Merbenit 2K20 is a self-levelling, two-component, SMP-based sealing compound. Handling strength achieved after 4 hours, even on moisture-impermeable substrates.

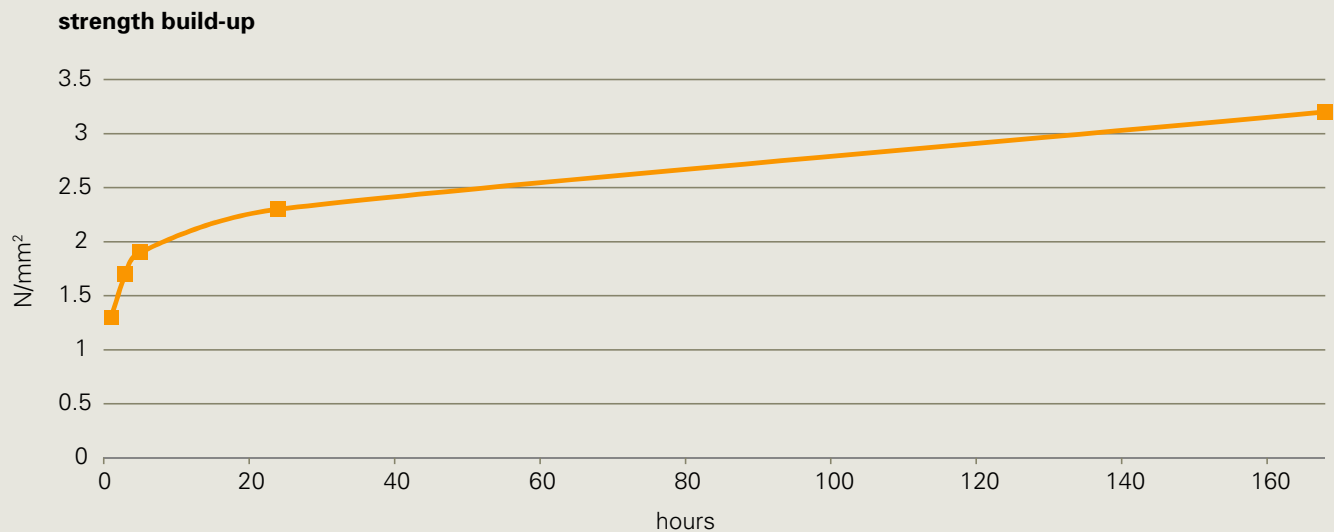
The self-levelling casting compound is based on a chemically neutral curing system and offers a wide adhesion range. Merbenit 2K20 is a permanently elastic and low-module product that offers excellent sealing properties.

Examples of use

- Horizontal casting, filling and sealing
- Replenishing and protecting joints
- Squeeze-type sealants in casing lids
- Tolerance compensating bond

	Merbenit 2K20
Shore A hardness	30
Elongation at break	approx. 300 %
Tensile strength	approx. 1.0 N/mm ²
Consistency	self levelling
Tooling time	max. 30 min.

Measurements at +23 °C and 50 % rh



Merbenit 2K60

The 2C rapid adhesive

Merbenit 2K60 is a permanently elastic two-component adhesive with extremely fast strength build-up and excellent adhesion properties, especially on plastics which are difficult to bond.

Merbenit 2K60 is easy to process, compatible with paints and offers protection against corrosion. Furthermore, the adhesive is shock and vibration resistant, offers tremendous sealing properties and is non-corrosive on surfaces.

Examples of use

Flexible bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit 2K60
Shore A hardness	48
Elongation at break	approx. 150 %
Tensile strength after 1 h	approx. 1.3 N/mm ²
Tensile strength after 7 d	approx. 3.0 N/mm ²
Consistency	pasty
Tooling time	max. 4 min.

Measurements at +23 °C and 50 % rh



Large area adhesion

These products offer a long tooling time and easy processing. The wide adhesion range allows you to create numerous bonds with little effort. The products can be processed using a spatula or as a spray. Due to the permanently elastic setting, the tension equalizing bonds can be exposed to constant vibrations and movement.

Products

Merbenit ST40 is sprayable

Merbenit DB50 is suitable for use in the marine field

Merbenit IA45 has low viscosity and is fast curing

Merbenit ST40

The sprayable adhesive and sealant

Merbenit ST40 is a sprayable, elastic adhesive with excellent sealing properties. This product allows for the efficient application of large area bondings.

Merbenit ST40 offers a long tooling time, compatibility with paints and is non-corrosive on surfaces. This shock and vibration resistant product adheres to many materials. Furthermore, Merbenit ST40 is suitable for powder- and thermocoating and short term resistant of up to +200 °C. The adhesive bridges gaps and cracks.

Examples of use

Large surface, flexible and sealing adhesion in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit ST40
Shore A hardness	32
Elongation at break	approx. 300 %
Tensile strength	approx. 2.1 N/mm ²
Consistency	pasty, sprayable
Tooling time	max. 25 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh



Merbenit DB50

The marine surface adhesive

Merbenit DB50 is an elastic adhesive for large area bonding for boat and ship building. It is particularly resistant to environmental influences and fulfils the requirements of the International Maritime Organisation (IMO).

Merbenit DB50's advantages include its high elasticity and mechanical strength, as well as its simple processing and long tooling time. The adhesive offers good ridge formation, a stable shape and does not run off inclined surfaces.

Examples of use

Large surface, flexible and sealing adhesion in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

Suitable for flexible bonding of wood, aluminium, stainless steel, cork, plastic flooring (except polyethylene and polypropylene), etc.

Fulfils the following standards

EMICODE EC1^{Plus} R

Eurofins Indoor Air Comfort Gold

IMO FTPC Parts 2+5

	Merbenit DB50
Shore A hardness	38
Elongation at break	approx. 300 %
Tensile strength	approx. 1.6 N/mm ²
Consistency	good ridge, efficiently spreadable
Tooling time	max. 60 min.
Curing rate after 24 h	≥ 2.0 mm

Measurements at +23 °C and 50 % rh

Merbenit IA45

The industrial adhesive

Merbenit IA45 is a solvent-free adhesive for application in very thin layers on one or both sides and which builds up strength quickly. It provides excellent adhesion, even on difficult plastics.

The adhesive allows for easy processing and offers minimal shrinkage. This product helps to avoid the risk of deformation of thin assembly parts due to heat development during the curing process. The use of adhesion promoters is often not necessary when Merbenit IA45 is used.

Examples of use

Installation of sound-absorbing elements

Large area bonding

Flexible bonding in the areas of metal, apparatus and machine construction, plastics technology, air-conditioning and ventilation systems, chassis, wagon, vehicle and container construction

	Merbenit IA45
Shore A hardness	45
Elongation at break	approx. 100 %
Tensile strength	approx. 3.6 N/mm ²
Consistency	self levelling
Tooling time	max. 10 min.

Measurements at +23 °C and 50 % rh



Cyanoacrylate adhesives

The Merbenit CA products are adhesives based on ethyl cyanoacrylate. Cyanoacrylate adhesives, also known as «super glue», are characterised by their quick curing.

Cyanoacrylate adhesives are versatile and can even be used with materials that are normally difficult to bond, such as rubber or plastics. They are particularly well suited for small-surface bonding.

The various Merbenit CA products have different adhesive properties, viscosity levels and curing speed on different materials.

Products

Merbenit CA10 for metals

Merbenit CA12 the universal type

Merbenit CA18 for porous surfaces

Merbenit CA10, Merbenit CA12 + Merbenit CA18

	Merbenit CA10	Merbenit CA12	Merbenit CA18
Unit sizes	20 g	20 g	20 g
Main application area	metals metals, melamine, phenolic resin	universal type various plastics, rubber, glass, metal, caoutchouc, leather, ceramic	porous surfaces wood, metal, synthetic materials, ceramic
Chemical composition	Ethyl-2-Cyanoacrylate	Ethyl-2-Cyanoacrylate	Ethyl-2-Cyanoacrylate
Density	1.06	1.05	1.06
Viscosity at 23 °C mPa	100 - 130	70 - 80	600 - 1500
Polymer solubility	Dimethylformamide, dimethyl sulfoxide, alkali		
Flash point °C	83	85	85
Temperature resistance °C	up to 100	up to 95	up to 95
Pressing time in seconds into:			
Metal (steel)	90 - 120	40 - 60	20 - 50
Plastic (ABS)	30 - 120	5 - 15	5 - 7
Rubber (EPDM)	10 - 60	5 - 15	1 - 4
Tensile strength (steel) N/mm²	22	21	10 - 22



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SWISS MADE