

Merbenit sealants

Merbenit sealants and adhesives cure to permanent elastomers.

They are suitable for joints and sealed bondings, making them flexible, dynamically loadable and resistant to environmental influences.

System benefits

Support dynamic loads

Bond to a wide range of materials

Reduce vibrations

UV and weather resistant

Processing advantages

Minimal surface preparation – adhesion promoter usually not required

Environmentally friendly, only minimal additional safety measures required

Compatible with paints

Merbenit adhesives

Merbenit adhesives cure to highly adhesive elastomers. That is why they are suitable for statically or dynamically stressed bondings.

Merbenit adhesives absorb tension or offset the differing thermal expansion experienced by combined materials. They also balance out manufacturing tolerances.

Typical industrial applications include solid, flexible bonding of reinforcing profiles, loaded components, covers and windows.

System benefits

Support of dynamic loads

Bonding of many different materials

Reduction of vibration

UV and weather resistant

Application benefits

Minimal surface preparation – adhesion promoter usually not required

From long open time to high initial tack

Offset of manufacturing tolerances

Environmentally friendly, only minimal additional safety measures required

Processing benefits

Compatible with paints

Powder coating up to 240°C with Merbenit PC200

Suitable for hybrid joints such as bonding / spot welding and bonding / riveting



DGE GROUP

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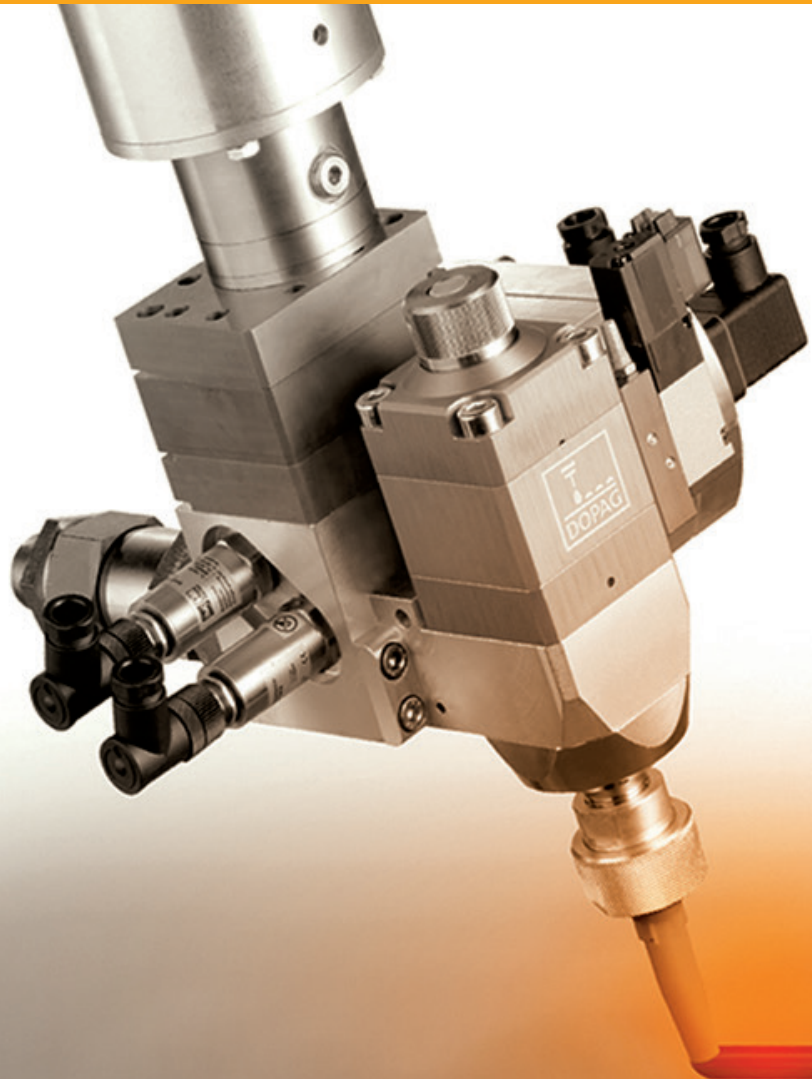
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ANTALA Ltd.

Technical Products for Industry



Merbenit

There is Merbenit in there.
Your product overview.

Merbenit range

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Merbenit product range

Product	Merbenit HS60	Merbenit SF50	Merbenit PC200	Merbenit 2K10	Merbenit 2K20	Merbenit 2K60	Merbenit HT50	Merbenit SK212	Merbenit SK212 fast	Merbenit XS55	Merbenit ST40
Description	SMP Universal Adhesive	SMP Fast Curing Adhesive	SMP Temperature Resistant Adhesive	SMP 2-Component Adhesive Sealant	SMP Self-Levelling 2-Component Sealant	SMP Fast Curing 2-Component Adhesive	SMP High-Tack Adhesive	SMP Direct Glazing Adhesive 60'	SMP Direct Glazing Adhesive 30'	SMP Extra Strong Adhesive	SMP Sprayable Adhesive
Application range	■ Industry ■ Automotive	■ Industry ■ Automotive	■ Industry ■ Automotive	■ Industry ■ Automotive	■ Industry	■ Industry ■ Automotive	■ Industry ■ Automotive	■ Industry ■ Automotive ■ Marine	■ Industry ■ Automotive	■ Industry ■ Automotive	■ Industry ■ Automotive
Shore A hardness DIN 53505	60	50	57	45	30	48	50	55	55	56	32
Modulus elongation at 100% DIN 53504 S2	ca. 1.6 N/mm²	ca. 1.6 N/mm²	ca. 2.0 N/mm²	ca. 0.6 N/mm²	ca. 0.3 N/mm²	ca. 2.0 N/mm²	ca. 1.2 N/mm²	ca. 1.7 N/mm²	ca. 1.2 N/mm²	ca. 1.5 N/mm²	ca. 0.8 N/mm²
Elongation at break DIN 53504 S2	ca. 250 %	ca. 300 %	ca. 250 %	ca. 300 %	ca. 300 %	ca. 150 %	ca. 400 %	ca. 300 %	ca. 350 %	ca. 500 %	ca. 300 %
Open time	max. 10 min.	max. 8 min.	max. 8 min.	max. 30 min.	max. 30 min.	max. 4 min.	max. 8 min.	max. 15 min.	max. 15 min.	max. 8 min.	max. 25 min.
Tensile strength DIN 53504	ca. 2.3 N/mm²	ca. 3.0 N/mm²	ca. 2.8 N/mm²	ca. 1.8 N/mm²	ca. 1.0 N/mm²	after 1h ca. 1.3 N/mm² after 7d ca. 3.0 N/mm²	ca. 2.2 N/mm²	ca. 3.3 N/mm²	ca. 3.0 N/mm²	ca. 5.0 N/mm²	ca. 1.5 N/mm²
Shear strength	ca. 2.1 N/mm²	n/a	n/a	n/a	n/a	ca. 3.0 N/mm²	n/a	n/a	n/a	n/a	n/a
Curing speed after 24h / 48h	≥ 2.0 mm / ≥ 3.0 mm	≥ 3.5 mm / ≥ 4.5 mm	≥ 2.5 mm / ≥ 3.5 mm	after 4h elastic and non-adhesive	after 4h elastic	after 4h elastic	≥ 3.0 mm / ≥ 4.5 mm	≥ 3.5 mm / ≥ 4.5 mm	≥ 3.5 mm / ≥ 4.5 mm	≥ 3.5 mm / ≥ 4.5 mm	≥ 2.0 mm / ≥ 3.0 mm
Consistency	stable	stable	stable	stable	self-levelling	slightly thixotropic	stable	stable	stable	stable	pasty, sprayable
Density	1.54 ± 0.05 g/cm³	1.40 ± 0.05 g/cm³	1.50 ± 0.05 g/cm³	Comp. A: 1.37 ± 0.05 g/cm³ Comp. B: 1.36 ± 0.05 g/cm³	Comp. A: 1.39 ± 0.05 g/cm³ Comp. B: 1.48 ± 0.05 g/cm³	Comp. A: 1.33 ± 0.05 g/cm³ Comp. B: 1.37 ± 0.05 g/cm³	1.48 ± 0.05 g/cm³	1.35 ± 0.05 g/cm³	1.33 ± 0.05 g/cm³	1.68 ± 0.05 g/cm³	1.38 ± 0.05 g/cm³
Change of volume DIN EN ISO 10563	≤ 8 %	≤ 7 %	≤ 4 %	≤ 10 %	≤ 4 %	≤ 8 %	≤ 6 %	≤ 3 %	≤ 3 %	≤ 13 %	≤ 6 %
Approved norms	■ AC-plants according to VDI 6022 ■ ISEGA (food production area) ■ eco-bau 1st priority ECO-BKP	n/a	n/a	n/a	n/a	n/a	■ ISEGA (food production area) ■ eco-bau 1st priority ECO-BKP	■ Eurofins IAC Gold ■ Euro-NCAP frontal impact 64 km/h ■ FMVSS 212, 60' SDAT	■ Eurofins IAC Gold ■ FMVSS 212, 30' SDAT	n/a	n/a
Colours	white, grey, black	white, grey, black	grey	grey, black	black	light grey	white, grey, black	black	black	white, grey, black	white, grey, black
Shelf life from date of production	18 months from date of production	15 months from date of production	12 months from date of production	12 months from date of production	12 months from date of production	12 months from date of production	15 months from date of production	15 months from date of production	15 months from date of production	15 months from date of production	18 months from date of production
Packaging	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs. 180 L drum	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs. 20 L hobboc 180 L drum	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	250 ml cartridge in boxes of 12 pcs. 2x200 ml cartridge in boxes of 15 pcs.	2x200 ml cartridge in boxes of 15 pcs.	250 ml cartridge in boxes of 12 pcs. 2x200 ml cartridge in boxes of 15 pcs.	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs. 20 L hobboc 180 L drum	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	290 ml cartridge in boxes of 12 pcs. 400 ml sausage in boxes of 12 pcs. 180 L drum

Product	Merbenit HM14	Merbenit HM21	Merbenit TS40	Merbenit E20	Merbenit IA45	Merbenit FB50	Merbenit FS30	Merbenit MB55	Merbenit DB50	Merbenit DC25	Merbenit UV27
Description	SMP Universal Adhesive Sealant	SMP Universal Adhesive Sealant	SMP Transparent Adhesive Sealant	SMP Lightweight Sealant	SMP Self-Levelling Adhesive	SMP Flooring Adhesive	SMP Fire Protection Sealant	SMP Marine Universal Adhesive	SMP Marine Deck Adhesive	SMP Marine Timber Deck Sealant	SMP Marine Glazing Sealant
Application range	■ Industry	■ Industry ■ Automotive	■ Industry ■ Interior	■ Industry ■ Automotive	■ Industry	■ Industry ■ Automotive	■ Industry ■ Fire Protection ■ Marine	■ Marine	■ Marine	■ Marine	■ Industry ■ Marine
Shore A hardness DIN 53505	40	45	42	36	45	30	26	55	38	30	20
Modulus elongation at 100% DIN 53504 S2	ca. 0.9 N/mm²	ca. 1.2 N/mm²	ca. 1.2 N/mm²	ca. 1.4 N/mm²	ca. 1.0 N/mm²	ca. 0.6 N/mm²	ca. 0.7 N/mm²	ca. 1.3 N/mm²	ca. 1.0 N/mm²	ca. 0.6 N/mm²	ca. 0.5 N/mm²
Elongation at break DIN 53504 S2	ca. 300 %	ca. 400 %	ca. 250 %	ca. 120 %	ca. 150 %	ca. 200 %	ca. 300 %	ca. 300 %	ca. 300 %	ca. 600 %	ca. 500 %
Open time	max. 20 min.	max. 30 min.	max. 6 min.	max. 35 min.	max. 10 min.	max. 60 min.	max. 15 min.	max. 10 min.	max. 60 min.	max. 15 min.	max. 15 min.
Tensile strength DIN 53504	ca. 1.3 N/mm²	ca. 2.0 N/mm²	ca. 2.4 N/mm²	ca. 1.5 N/mm²	ca. 2.8 N/mm²	ca. 0.8 N/mm²	ca. 1.5 N/mm²	ca. 2.1 N/mm²	ca. 1.6 N/mm²	ca. 1.6 N/mm²	ca. 1.3 N/mm²
Shear strength	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Curing speed after 24h / 48h	≥ 2.0 mm / ≥ 3.0 mm	≥ 3.0 mm / ≥ 4.0 mm	≥ 2.0 mm / ≥ 3.0 mm	≥ 3.5 mm / ≥ 6.0 mm	≥ 3.5 mm / ≥ 6.0 mm	≥ 2.5 mm / ≥ 3.5 mm	≥ 3.0 mm / ≥ 4.5 mm	≥ 2.0 mm / ≥ 4.0 mm	≥ 2.0 mm / ≥ 3.0 mm	≥ 2.5 mm / ≥ 3.5 mm	≥ 3.0 mm / ≥ 4.0 mm
Consistency	stable	stable	stable	stable	self-levelling	good ridge, rationally trowelable	stable	stable	good ridge, efficiently trowelable	pasty, not stable in vertical joints	stable
Density	1.60 ± 0.05 g/cm³	1.52 ± 0.05 g/cm³	1.08 ± 0.05 g/cm³	0.70 ± 0.05 g/cm³	1.30 ± 0.05 g/cm³	1.62 ± 0.05 g/cm³	1.47 ± 0.05 g/cm³	1.53 ± 0.05 g/cm³	1.62 ± 0.05 g/cm³	1.36 ± 0.05 g/cm³	1.46 ± 0.05 g/cm³
Change of volume DIN EN ISO 10563	≤ 5 %	≤ 5 %	≤ 4 %	≤ 2 %	≤ 5 %	≤ 2 %	≤ 3 %	≤ 6 %	≤ 3 %	≤ 6 %	≤ 7 %
Approved norms	■ EMICODE EC1 ^{PLUS} R ■ Eurofins IAC Gold	n/a	■ EMICODE EC1 ^{PLUS} R ■ Eurofins IAC Gold	n/a	n/a	■ EMICODE EC1 ^{PLUS} R ■ Eurofins IAC Gold	■ EMICODE EC1 ^{PLUS} R ■ ISO 11600-F20-HM ■ DIN 4102, class B1 ■ VKF 5.3, S90 ■ Eurofins IAC Gold ■ eco-bau 1st priority ECO-BKP ■ IMO FTPC Parts 2+5	■ IMO FTPC Parts 2+5	■ Eurofins IAC Gold ■ IMO FTPC Parts 2+5	■ IMO FTPC Parts 2+5	■ IMO FTPC Parts 2+5 ■ ISO 11600-G-25-HM ■ SCG Bioclean
Colours	white, grey, black	white, grey, black	transparent	white	grey	cream white	white, grey, black	white, grey, black	black	black	black
Shelf life from date of production	12 months from date of production	15 months from date of production	12 months from date of production	12 months from date of production	12 months from date of production	15 months from date of production	18 months from date of production	18 months from date of production	9 months from date of production	12 months from date of production	15 months from date of production
Packaging	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs. 20 L hobboc 180 L drum	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	600 ml sausage in boxes of 12 pcs.	600 ml sausage in boxes of 12 pcs. 750 ml can 16 kg bucket 20 L hobboc	600 ml sausage in boxes of 12 pcs. 16 kg bucket	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	290 ml cartridge in boxes of 12 pcs. 400 ml sausage in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs. 20 L hobboc 180 L drum	600 ml sausage in boxes of 12 pcs. 16 kg bucket	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs.	290 ml cartridge in boxes of 12 pcs. 600 ml sausage in boxes of 12 pcs. 20 L hobboc

*All measurements were performed at standard climate (23°C and 50% relative humidity).