

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

Distribution partners

Antala S.L., www.antala.es, Distributor ES, PT

Antala Ltd., www.antala.co.uk, Distributor GB, IE

ATF, www.atf.ru, Distributor RU

Chenso Inc., www.chenso.com, Distributor USA, CAN, MEX

Credimex, www.credimex.ch, Distributor CH

Dana Lim A/S, www.danalim.dk, Distributor DK

Dialinas S.A., www.dialinas.gr, Distributor GR

Endüstri Teknik, www.endustri teknik.com, Distributor TR

G.A. Lindberg Chemtech AB, www.galindberg.se, Distributor SE, NO, FI

InnoSolv Pty Ltd, info@innosolv.com.au, Distributor Asia, Pacific

Koop Trgovina d.o.o., www.koop.si, Distributor SI

Mascherpa S.p.A., www.mascherpa.it, Distributor IT

MAVOM b.v., www.mavom.nl, Distributor BE, NE, LU

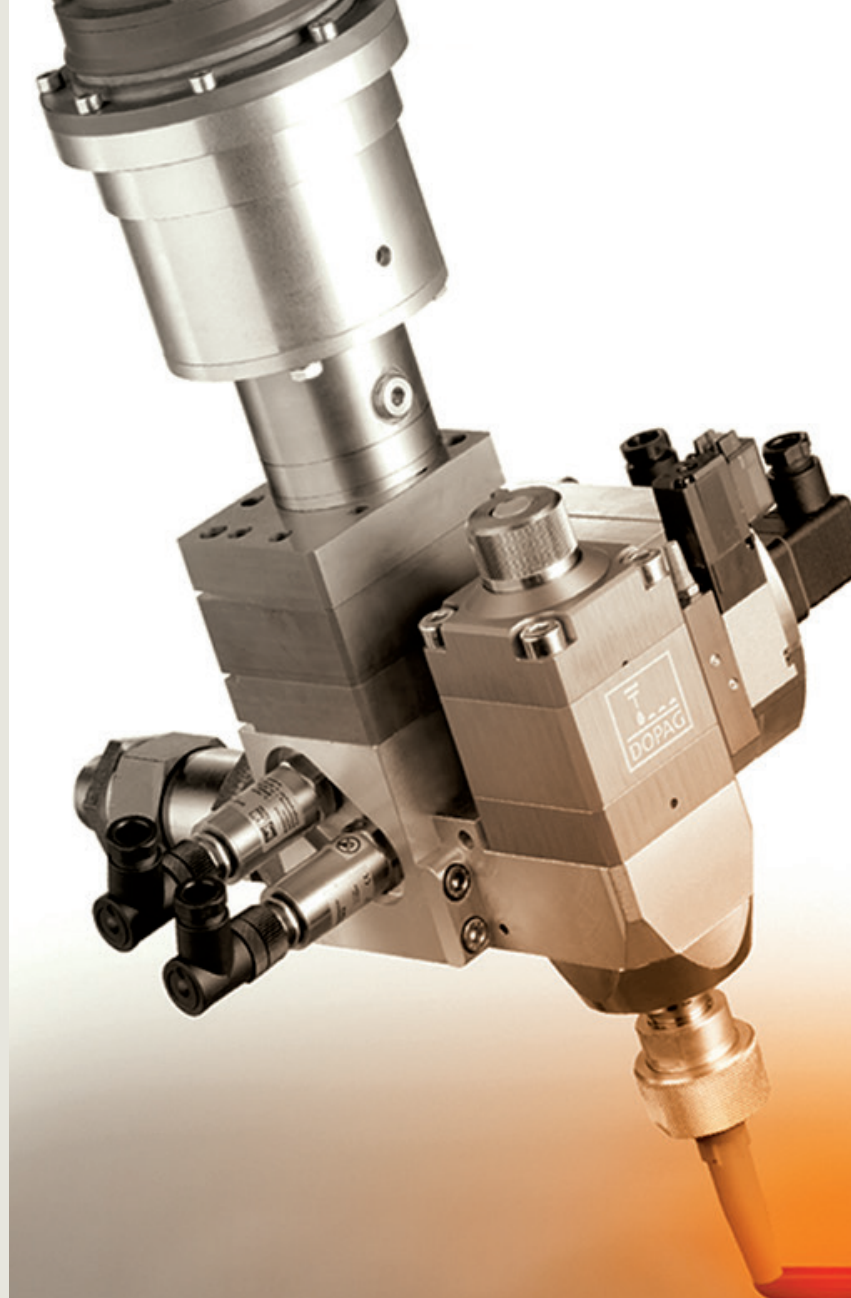
Reiss GmbH, www.reiss-kraft.de, Distributor DE, AT

Rotal Adhesives & Chemicals Ltd., www.rotal.com, Distributor IL

Samaro, www.samaro.fr, Distributor FR

SKAB AG, www.skabag.com, Distributor IT

Ulbrich Betriebs g.m.b.H., www.ulbrich.at, Distributor CZ, SI



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 | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive Marine | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> 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/mm ² | ca. 1.6 N/mm ² | ca. 2.0 N/mm ² | ca. 0.6 N/mm ² | ca. 0.3 N/mm ² | ca. 2.0 N/mm ² | ca. 1.2 N/mm ² | ca. 1.7 N/mm ² | ca. 1.2 N/mm ² | ca. 1.5 N/mm ² | ca. 0.8 N/mm ² |
| 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/mm ² | ca. 3.0 N/mm ² | ca. 2.8 N/mm ² | ca. 1.8 N/mm ² | ca. 1.0 N/mm ² | after 1h ca. 1.3 N/mm ² after 7d ca. 3.0 N/mm ² | ca. 2.2 N/mm ² | ca. 3.3 N/mm ² | ca. 3.0 N/mm ² | ca. 5.0 N/mm ² | ca. 1.5 N/mm ² |
| Shear strength | ca. 2.1 N/mm ² | n/a | n/a | n/a | n/a | ca. 3.0 N/mm ² | 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/cm ³ | 1.40 ± 0.05 g/cm ³ | 1.50 ± 0.05 g/cm ³ | Comp. A: 1.37 ± 0.05 g/cm ³ Comp. B: 1.36 ± 0.05 g/cm ³ | Comp. A: 1.39 ± 0.05 g/cm ³ Comp. B: 1.48 ± 0.05 g/cm ³ | Comp. A: 1.33 ± 0.05 g/cm ³ Comp. B: 1.37 ± 0.05 g/cm ³ | 1.48 ± 0.05 g/cm ³ | 1.35 ± 0.05 g/cm ³ | 1.33 ± 0.05 g/cm ³ | 1.68 ± 0.05 g/cm ³ | 1.38 ± 0.05 g/cm ³ |
| Change of volume DIN EN ISO 10563 | ≤ 8 % | ≤ 7 % | ≤ 4 % | ≤ 10 % | ≤ 4 % | ≤ 8 % | ≤ 6 % | ≤ 3 % | ≤ 3 % | ≤ 13 % | ≤ 6 % |
| Approved norms | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> ISEGA (food production area) eco-bau 1st priority ECO-BKP | <ul style="list-style-type: none"> Eurofins IAC Gold Euro-NCAP frontal impact 64 km/h FMVSS 212, 60' SDAT | <ul style="list-style-type: none"> 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 Contact | 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 | <ul style="list-style-type: none"> Industry | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Interior | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Automotive | <ul style="list-style-type: none"> Industry Fire Protection Marine | <ul style="list-style-type: none"> Marine | <ul style="list-style-type: none"> Marine | <ul style="list-style-type: none"> Marine | <ul style="list-style-type: none"> 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/mm ² | ca. 1.2 N/mm ² | ca. 1.2 N/mm ² | ca. 1.4 N/mm ² | ca. 1.0 N/mm ² | ca. 0.6 N/mm ² | ca. 0.7 N/mm ² | ca. 1.3 N/mm ² | ca. 1.0 N/mm ² | ca. 0.6 N/mm ² | ca. 0.5 N/mm ² | |
| 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/mm ² | ca. 2.0 N/mm ² | ca. 2.4 N/mm ² | ca. 1.5 N/mm ² | ca. 2.8 N/mm ² | ca. 0.8 N/mm ² | ca. 1.5 N/mm ² | ca. 2.1 N/mm ² | ca. 1.6 N/mm ² | ca. 1.6 N/mm ² | ca. 1.3 N/mm ² | |
| 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 | ≥ 2.5 mm / ≥ 3.5 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/cm ³ | 1.52 ± 0.05 g/cm ³ | 1.08 ± 0.05 g/cm ³ | 0.70 ± 0.05 g/cm ³ | 1.30 ± 0.05 g/cm ³ | 1.62 ± 0.05 g/cm ³ | 1.47 ± 0.05 g/cm ³ | 1.53 ± 0.05 g/cm ³ | 1.62 ± 0.05 g/cm ³ | 1.36 ± 0.05 g/cm ³ | 1.46 ± 0.05 g/cm ³ | |
| Change of volume DIN EN ISO 10563 | ≤ 5 % | ≤ 5 % | ≤ 4 % | ≤ 2 % | ≤ 5 % | ≤ 2 % | ≤ 3 % | ≤ 6 % | ≤ 3 % | ≤ 6 % | ≤ 7 % | |
| Approved norms | <ul style="list-style-type: none"> EMICODE EC1^{PLUS} R Eurofins IAC Gold | n/a | <ul style="list-style-type: none"> EMICODE EC1^{PLUS} R Eurofins IAC Gold | n/a | n/a | <ul style="list-style-type: none"> EMICODE EC1^{PLUS} R Eurofins IAC Gold | <ul style="list-style-type: none"> EMICODE EC1^{PLUS} R ISO 11600-F20-LM DIN 4102, class B1 VKF 5.3, S90 Eurofins IAC Gold eco-bau 1st priority ECO-BKP IMO FTPC Parts 2+5 | <ul style="list-style-type: none"> IMO FTPC Parts 2+5 | <ul style="list-style-type: none"> Eurofins IAC Gold IMO FTPC Parts 2+5 | <ul style="list-style-type: none"> IMO FTPC Parts 2+5 | <ul style="list-style-type: none"> IMO FTPC Parts 2+5 ISO 11600-G-25LM 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).