








<p>Article number:</p>	<p>Cartridge: 311050000 Flexible tube:311050010</p> 
<p>Product name:</p>	<p>Gebhardt-MAXX – Air duct sealant</p>
<p>Field of application:</p>	<p>A sealant which has been specifically designed for use in air ducts and ventilation systems. In addition Gebhardt-MAXX is also used for jointing air-ducts, for connecting ductwork and sealing air conditioning equipment. Gebhardt-MAXX is also used for bonding and seam and joint seals in the construction, food industry, glass -, vehicle -, wagon -, ship -, mechanical and electrical engineering. Also suitable for floor joints and styrofoam. As for the sealing of expansion and connection joints in construction and civil engineering, both in the Interior as well as exterior depending on the strength of the surface materials. Elastic bonding between concrete, bricks and brick works, metal, plastics and wood, ceramic, etc. Preliminary tests are required for natural and artificial stone.</p>
<p>Characteristics:</p>	<ul style="list-style-type: none"> ● Density (DIN EN ISO 2811-1): 1,47 ± 0,06 g/cm³ ● Skin formation time (23 °C/ 50 % r.h.): approx. 30 minutes ● Curing (in the first 24 hours): approx. 3 mm ● Shore-A-hardness (DIN 53505): approx. 46 ± 7 units ● Elongation value (DIN EN ISO 8339-A, 100 %): ca. 1,2 N/mm² ● Volume shrinkage (DIN EN ISO 10563): max 3% ● Admissible total deformation (specification producer): 10% ● raw material basis: hybrid-polymer ● colour: grau ● elastic, Pasty, pre-packaged single component sealing compound ● temperature resistance (full hardened):-40 °C to + 90 °C ● Resistant to ageing and weathering ● Good UV resistance ● free of solvents, silicone and isocyanate ● free of plasticisers ● free of halogen ● free of toluol ● free of chlorinated paraffins ● free of polydimethylsiloxane ● free of fluorocarbons ● free of lacquer wettings substances ● chemically neutral ● permanently elastic ● excellent bonding characteristics ● virtually odorless ● Paint compatible according to DIN 52452 part 4

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<p>Powder-coating:</p>	<p>Gebhardt-MAXX is suitable for the application of a powder coating of air-ducts made of sheet metal. The following temperature and time combinations should not be exceeded: 180°C = > to approx. 40 minutes 190°C = > to approx. 20 minutes 200°C = > to approx. 10 minutes</p> <p>Due to the large number of available paint systems or varnishes, however, compatibility with the sealing compound must be ensured in advance in in-house tests.</p> <p>Due to the low motion absorption of these color systems, the occurrence of hair cracks on the coated sealing compound may be expected. The functionality of this joint is usually not affected by this.</p>
<p>DIN EN ISO 846:</p> 	<ul style="list-style-type: none"> • Gebhardt-MAXX meets the requirements with regard to microbial metabolability according to DIN EN ISO 846 – A, C • The sealing compound is classified as very well disinfectable and meets the hygienic requirements for use in HVAC systems according to VDI 6022
<p>EMICODE:</p> 	<p>Licence granted for the management of EMICOCE: EC1 - very low-emission</p>
<p>DGNB: Deutsche Gesellschaft für Nachhaltiges Bauen</p> 	<p>The entire product meets in DGNB 2018 ENV 1.2 risks for the local environment the quality level: 4 of 4</p> <p>DGNB new version office and administration building (NBV15): The product meets the requirements for quality levels 1 to 4 and contributes to the achievement of 100 (out of a maximum of 100 achievable) checklist points in the Criterion 'ENV 1.2 Risks to the local environment'.</p> <p>Chlorinated paraffins < 0.1 % Solvent < 1 % KWS plasticizer < 0.1 %</p>
<p>LEED:</p> 	<ul style="list-style-type: none"> • Self declared in accordance LEED Building Design and Construction V3 (2009) • Self declared in accordance LEED Building Design and Construction V4 (2015)
<p>eco-bau:</p> 	<p>Does not violate any exclusion criteria according to Minergie-Eco</p>

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<p>Declaration of no objection:</p> 	<p>For food transport vehicles and food processing plants ((EC) No. 1935/2004 and LFGB §§ 30 and 31)</p> <p>The product must not be used in areas with direct contact with food</p>
<p>Processing:</p>	<ul style="list-style-type: none">● between approx. + 5 °C and + 40 °C● Skin formation takes place within 30 minutes (23°C/50% r.h.)● Off hardness speed (23°C/50%): 3 mm/day● curing speed and skinning are strongly dependent on the ambient Temperature, humidity and coat thickness● Adhesive surfaces must be load-bearing, dry, dust-, oil- and grease-free (if necessary cleaning with e. B. isopropanol)● non-absorbent surfaces with special cleaner handle, insert the necessary Primer● During renovation work, old sealing compound, paint residues and non-load-bearing layers must be completely removed● In the case of coated substrates (e.B. varnishes, paints), compatibility with the sealant must be ensured by preliminary tests● The joint must be protected from dirt, rain and heavy mechanical stress until a solid surface skin has formed (if necessary, the joint must be covered)● The introduction of the sealant in case of strong temperature fluctuations (early stress on the sealing compound) should be avoided● Consumption: Different depending on the sealing gap● Screw on the plastic nozzle and cut it off according to the desired bead thickness above the screw thread● Insert cartridge or tubular bag in hand or pressure gun and spray on bubble-free● Sights and joints can be elapsd after application with a neutral, non-coloring aqueous smoothing agent and a suitable smoothing tool● Remove excess smoothing agent immediately afterwards to avoid permanent streaks● Freshly applied sealing compound can be removed with commercially available cleaners. Full-hardened material can only be removed mechanically.● Gebhardt-MAXX is paint compatible according to DIN 52452-4. Due to the large number of color systems on the market, we still recommend our own compatibility tests in this specific case. For example, discoloration reactions in combination with sealants are known from alkyd resin paints.● The sealant can always be painted over with many painting systems. Due to the low movement of these painting systems, however, the occurrence of hairline cracks in the paint is to be expected, the functionality of the joint is usually not impaired. Joints loaded with strain must not be painted over.● Especially with powder-coated surfaces, the adhesion must be checked on a case-by-case basis, as depending on the paint used (possibly only for individual shades), the adhesion of sealants can be negatively influenced.

<p>Material adhesion properties:</p>	<ul style="list-style-type: none"> • Surfaces with good adhesion: aluminium raw (sand), aluminium anodised, powder coated aluminium (primer required), iron (first remove anti-caking agent), copper sheet metal (oxide layer before removing), zinc (oxide layer before removing), Ethernit, concrete, brick/brick (non-waxed), tiles (unglazed), glass, wood (as long as no resin comes out), PVC (due to different plastic surfaces, however, preliminary tests should be carried out) • Good adhesion to clean substrates, the substrates must be load-bearing, free of oil, Grease, etc.
<p>Stability characteristics:</p>  <p>Kitchen exhaust air:</p>	<ul style="list-style-type: none"> • Resistant to, among other things: kitchen exhaust air, water and sea water • Early water resistant • Ammonia solution (10%) • Isopropanol (with normal cleaning or wipe disinfection) • Water and moisture • Ammonia NH₃ (concentration 20ppm) • Ammonia NH₄OH (aqueous solution) • Caustic soda (5%) resistant at room temperature • Soapy liquor (20%) • Saline solution, depending on salts • Heating oil / mineral oil up to 120° (short-term exposure) • Glycerin- short-term, permanent exposure causes sources • Turpentine oil- short-term, permanent exposure causes swelling • Ozone resistant with complete curing against everyday exposure, e.g. disinfecting fumigation or from the operation of UV lamps • Not resistant to fuel, citric acid, chlorine and hydrogen peroxide (H₂O₂) <p>The sealant must not be under constant influence of these above-referred substances. Longer-term accumulations of liquid substances over the joint must be avoided in the plant design. In case of heavy use, it is important to observe the joint and, if necessary, to renovate it.</p>
<p>How to treat the hardened joint:</p>	<p>The sealing with Gephardt-MAXX is a plastic joint that can be hurt by pointed or sharp-edged objects. To avoid strong mechanical stress and friction. Carry out the cleaning of the joint only with neutral, easily lubricating agents. Are not aggressive or abrasive cleaners.</p>
<p>Hazard notes:</p>	<ul style="list-style-type: none"> • rooms ventilate while processing • Contact with eyes and mucous membranes prevent, eye contact, rinse immediately with plenty of water (if necessary eye doctor) • keep the uncured sealant of children • Measures for accident and health protection resulting from the safety data sheet and the labelling must be observed
<p>Supplied container:</p>	<ul style="list-style-type: none"> • cartridge á 290 ml (20 pcs./ box), pallet with 1.200 pcs. • flexible tube á 560 ml (20 pcs./ box), pallet with 800 pcs. • <i>alternatives are available upon request</i>

Shelf life:	The sealant can be stored under normal room conditions for at least 9 months. The sealing compound must be protected from dust, moisture and direct sunlight. The storage temperature should be between + 5 °C and + 25 °C (protect from frost).
General information:	Sealant residues can be disposed of after complete curing via the house or fabric waste.