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PRODUCT DATA SHEET – 31103001X

As of: 01.12.2020

Article number:	Cartridge: 311030014 Tube: 311030013  
Product name:	Gebhardt-MASTIC – Air duct sealant
Field of application:	A sealant that has been specially designed to permanently line seams, splices, grooves, overlaps and connection joints in the building industry as well as in applications related to metal structures and the construction of vehicles, carriages, containers, ventilation systems, air conditioning systems, machines and appliances. For embedding and lining between window frames (metal, wood) and masonry as well as between ready-made components and sheet edging on chimneys (in the case of installation work/all types of components).
Properties:	● Basis of the raw material: Butyl rubber ● Specific weight: approx. 1.40 +/- 0.05 ● Shore-A hardness: approx. 15 +/- 5 ● Skin formation: approx. 20 – 30 minutes (depending on (among other things) room temperature and air humidity) ● Full hardening time: approx. 1 mm every 24 hrs (depending on (among other things) room temperature and air humidity) ● Breaking strain: > 400 % ● Processing temperature: approx. + 5 °C to + 40 °C ● Temperature resistance: - 20 °C to + 70 °C (after complete hardening) ● Solid content: > 84 % ● Colour: grey ● Ready to use single component sealing compound ● A silicone-free, injectable, solvent-based, plastic sealing compound that can be painted over with good adhesive qualities on metals and plastics ● Light-resistant and weatherproof ● After setting, Gebhardt-MASTIC produces a ductile mass and as a result it is capable of absorbing minor movements affecting the parts to be caulked ● Gebhardt-MASTIC meets the microbial metabolisation requirements of VDI 6022 ● Gebhardt-MASTIC is classed as easily sterilisable and it meets the hygiene requirements for use in cleanrooms
Supplied container:	● 310 ml cartridge ● 560 ml tube

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Processing:	The substrate must be firm, clean, dry and free from dust oil and grease. Loose particles should be removed. Absorbent substrates should be pre-treated with a suitable primer and non-absorbent substrates should be pre-treated with a suitable cleaning agent. Cut the tip off the cartridge above the screw thread, screw on the plastic nozzle and cut off at an angle according to the desired bead thickness. Insert the cartridge or tube into the manual or compressed air gun and sputter. Fill the joints and the areas to be sealed well and make sure that air pockets are avoided. When the compound hardens, you may experience a slight shrinkage as a result of the solvents that are contained evaporating away. Before a skin forms, Gebhardt-MASTIC can be made smooth with smoothing agents. However avoid the smoothing liquid running over the substrate, especially in the case of absorbent substrates. After complete hardening, Gebhardt-MASTIC can be painted over with most commercially available alkyd paints. Before working with the compound however it is recommended that you carry out your own compatibility trials. Depending on the type of alkyd paint however, different colour shades may arise as a result of the different absorbency of the substrate. This appearance depends on the colour and the respective substrate. Please inform yourself about the corresponding processing guidelines and rules for your application. For professional jointing, the DIN and other technical standards must be adhered to. The joint should be protected from rain, dirt and heavy mechanical loads until a hard surface skin has formed. If necessary, you should cover the joint.
Material adhesive properties:	● Substrates with good adhesion: Untreated aluminium, anodised aluminium, powder coated aluminium, iron, copper sheeting, brass, zinc sheeting, enamel, fibrous cement, aerated concrete, concrete, klinker/brick, tiles, glass, wood ● Good adhesion on clean substrates. The substrates must be supportive, free from oil, grease, etc. and dirt. Absorbent (open pore) substrates should be pre-treated in order to harden the adhesive surface and to close the pores (if necessary, with a mixture of 1 part sealant and 10 parts water). ● The water which is released during the hardening process can lead to corrosion in metals
Consistency characteristics:	● Resistant to: Water, formaldehyde (30%), caustic soda, citric acid (10%), acetic acid (5%), isopropyl alcohol, sodium chloride solution (25%), washing-up liquid (‘Pril’ as a 20% solution), chlorine solution (5%), detergents (Persil colour as a 5% solution), hydrogen peroxide (10%), soap suds (20%), disinfectants, extracted air from kitchens ● In tests, the test fluids were applied onto the substrate as a film and were constantly topped up. In each case, the reaction time was 8 hours/day followed by 16 hours of drying over a period of 7 days. The air duct sealant is not suitable under water or immersed in any of the media cited above e.g. in storage tanks or pipelines.

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	● During the reaction time, small quantities of the media are absorbed by the sealant. In the case of very long reaction times involving large quantities of the medium (without any possibility of drying out) the sealant may swell.
How to treat the hardened joint:	Sealing with Gebhardt-MASTIC results in a plastic joint which can be broken through pointed or sharp-edged objects. Heavy mechanical loads and friction should be avoided. The joint should only be cleaned with a neutral detergent that acts as a light lubricant. Never use abrasive cleaners.
Hazard notes:	Ventilate rooms well when working with the compound. Keep the non-hardened sealant away from children. Avoid contact with the eyes/mucous membranes. In case of contact with the eyes, rinse well and if necessary consult an eye specialist. R10 – flammable. The butyl sealant is no longer flammable once it has hardened. As such, it is no longer classed as a hazardous material.
Storage:	● At least 9 months in a sealed cartridge (from the date of production) ● Storage temperature: approx. + 5 °C to + 25 °C ● Containers should be protected from wet conditions, frost and solar radiation