

## 1K MS Polymer Power Bond - greenTech

### 1. Description

*1K PowerBond* is a unique sealing and bonding mastic of the newest generation of high-quality MS-hybrid-polymers. It cures under the influence of air humidity and is non-aggressive. *1K PowerBond* can be painted after 15 minutes, even "wet on wet". The painting does not slow down the curing. *1K PowerBond* is fast drying system which remains flexible and is usable as an elastomeric bonding as well as sealing of seams and joints. Friendly to the environment does not contain isocyanate, solvents, silicones or halogen and is completely odourless. A green product...

### 2. Applications

- Elastomeric bonding as well as sealing of seams and joints in automotive, truck & transport, mobile homes, caravans, wagons, etc.
- Bonding of steel plate, galvanized or aluminum body parts - no primer necessary
- Bonding of spoilers, extension kits, protective kits, protective strips, type indications etc.
- Sealing of bodywork joints, water leakage on boats, rear lights, also on wet surfaces
- Bonding and sealing of polyester on steel, aluminum and wood, also mutually
- Sealing of portholes and air shafts
- Installing and sealing of electronic components, pipe passages, teak decks, polyester and stainless steel in pleasure cruisers
- Permanent elastic bonding and sealing in automotive body-work, container, carriages, vehicle, boat and general construction industry
- Fill- and joint sealing material suitable for connecting joints, seams and columns
- Climatic & ventilation technology, construction of apparatus, plastic technology
- Civil- and underground engineering, public works, structural engineering




### 3. Directions for use

Easy handling with a standard silicon-gun or pneumatic gun (2,5bar). *1K Power-Bond* must be applied on a clean and degreased surface. Clean and degrease the substrate with a suitable, non aggressive solvent. Open the cartridge and fix the nozzle. Cut off the nozzle at the desired diameter. Thickness of layer depends on nature of material. Apply counterpart within 10 min. The curing time depends on amount of material used humidity and temperature. Due to the various paints and vanishes on the market, we recommend pre-tests. Paints based on alkyd resins may have extended drying time. The varnish should be applied to the sealant within 4 hours. You get the best results working "wet on wet". After cleaning with acetone, the joints can be repainted at any time.

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### 4. Technical properties:

<b>Chemical base</b>	1-K MS-Hybrid Polymer
<b>Product name</b>	Power Bond 1K
<b>Colors</b>	Black, white, grey
<b>Packaging</b>	310ml, 600ml, hobbocks, drums * * please ask for our current product/pricelists or click on our website: <a href="http://www.vip-gmbh.com">www.vip-gmbh.com</a>
<b>Consistency general</b>	thixotrope
<b>Density</b> @ +23 °C / 50% H.R	1,52 g/cm <sup>3</sup> (+/- 0,03)
<b>Shore hardness (A) - DIN 53505</b> @ +23 °C / 50% H.R	Sh-A 55 (+/- 2)
<b>Application temperature</b>	von +5 °C bis +40 °C
<b>Temperature of the substrate</b>	von +5 °C bis +40 °C
<b>Temperature resistance</b>	von -40 °C bis +90 °C
<b>Skin forming time</b> @ +23 °C / 50% H.R	5 - 10 Min.
<b>Cure time</b>	after 24h: 2,5mm; after 48h: 4mm
<b>Tensile strength</b> @ 7 days / +23 °C / 50% H.R	2,1 N/mm <sup>2</sup> 
<b>Elongation</b>	500%
<b>Modulus elongation at 100%</b> @ 7 days / +23 °C / 50% H.R	1,1 N/mm <sup>2</sup>
<b>Change in volume</b>	< 7%
<b>Chemical resistance</b> *A = no effect *B = slight effect *C = failure not recommended	Water A aliphatic solvents A oil & greases A diluted inorganic acids and alkali A esters B ketones B aromatics B concentrate acids C chlorinated hydrocarbons C
<b>Shelf life</b> @ +4-22 °C / 50%H.R	15 months
<b>Storage conditions</b>	Cool and dry

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability from his use of the product (e. g. usage parameters, conditions of the substrate, system build, etc.). We recommend in general testing the suitability on a small sample prior to use. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Changes in the material due to product improvements can occur and do not always warrant a change in the technical info. The rights of the buyer regarding the quality of our materials are as per our terms of sale in the latest valid version. For special requests that are outside the scale of this technical info, please get in touch with our technical service team under +49-(0)89-89 55809 30 who will be happy to help. Valid is only the latest updated version of this technical product information.

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