PRODUCT INFORMATION

1K MS Polymer Power Bond - greenTech

MS-POLYMERS

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:

Chemical base	1-K MS-Hybrid Polymer	
Product name	Power Bond 1K	
Coulors	Black, white, grey	
Packaging	310ml, 600ml, hobbocks, drums * * please ask for our current product/pricelists or click on our website: www.vip-gmbh.com	
Consistency general	thixotrope	
Density @ +23°C / 50% H.R	1,52 g/cm³ (+/- 0,03)	
Shore hardness (A) - DIN 53505 @ +23°C / 50% H.R	Sh-A 55 (+/- 2)	
Application temperature	von +5°C bis +40°C	
Temperature of the substrate	von +5°C bis +40°C	
Temperature resistance	von -40°C bis +90°C	
Skin forming time @ +23°C / 50% H.R	5 - 10 Min.	
Cure time	after 24h: 2,5mm; after 48h: 4mm	
Tensile strength @ 7 days / +23°C / 50% H.R	 2,1 N/mm²	
Elongation	500%	
Modulus elongation at 100% @ 7 days / +23°C / 50% H.R	1,1 N/mm²	
Change in volume	< 7%	
Chemical resistance ***A** = no effect ***B** = slight effect ***C** = failure not recommended	Water aliphatic solvents oil & greases diluted inorganic acids and alkali esters ketones aromatics concentrate acids chlorinated hydrocarbons	A A A A B B B C C
Shelf life @ +4-22°C / 50%H.R	15 months	
Storage conditions	Cool and dry	

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