

TECHNICAL DATA – user manual

- Product:** CERAMIC REFRACTORY MASTIC VS-K 1200
- Description:** Glue SIBRAL VS-K 1200 has dense, non-gravitate consistence, contains only the inorganic raw materials. Glue does not contain any organic substances or other combustible additions. Identification according to the ENV 1402-1
- Color:** Grey
- Manual:** It is possible to stick all kind of lightweight insulating materials produced from ceramic fibers. The temperature for glued joint is 1100°C. This glue is possible to use for temperature 1200°C, if the vitrifying of the glued joint is allowed. It is possible to stick other ceramic materials – calcium silicate, fireclays etc. Sticking on other: aluminum or metal sheets and plates – the sheet and plates have to be without oil, without dusty and surface of glued side must be roughened. The glue is not suitable as a joint filler in insulating and as protective varnish of the surfaces. The glue dries by the room temperature, is the best to use it 24 hour after finishing of the sticking. The glue during tempering – at the temperature higher than 1100°C continuously changed into the vitreous consistence. The cohesion of glued joint remains still the same.
- Volume weight:** ca. 2,0 kg / dm³
- Max. using temperature:** 1200 °C
- Grain size:** 0,3 mm
- Refractoriness:** min. 149 ISO
- Chemical composition:**
- | | | |
|--------------------|--------------------------------|-----------|
| (before annealing) | SiO ₂ | ca. 41 % |
| | Al ₂ O ₃ | ca. 22 % |
| | Na ₂ O | ca. 4 % |
| | Fe ₂ O ₃ | ca. 0,3 % |
- Workflow:**
- a) Bonding of the ceramic fiber materials: The glue must be very good mixed and dab in thin layer (max. 0,5 mm) on both glued sides. Both parts will press, and hold together by low pressure during 2 – 5 second, according to the dimensions of the glued parts. It is necessary to clean immediately after work all bespattered places and working tools – the drying glue is hard to clear away.
- b) Bonding of modules: the sticking is possible only on the surface which must be non-crumble, dried and without dust. Dab the layer of the glue on the reverse side of the modules. The layer of the glue must be 3-4 mm thin. Module must be pressed to the surface and hold for 3 – 5 second (this case is for module 300x300x50mm). If the dimensions of modules are bigger, the fixing time has to be longer.
- Delivery, storage and handling:** The glue is delivered for instant usage, packed into plastic containers á 6 kg. Approximate consumptions: sticking of blankets 2 – 3 kg/m², sticking of modules 4,5 – 6 kg/m². The glue is necessary to store in pent-up, the best in original containers. The glue must not be frozen. It is recommended to surface of glue in container pour over by the thin layer of water for the long-term storage, and container again pent-up close. The term for storage is in original containers 12 months. If is encrusted on the top of the glue, is necessary carefully to withdraw it – it is impossible to fixed it. The glue is possible to dilute by the water.
- Safety:** The glue VS-K has strong alkaline reaction – it contains the water glass. The using of protective gloves and protective goggles is recommended by the work with this glue. Protect your hand before and after working by the protective hand cream. If the eyes are hit, it is necessary to wash out them by the clear water and immediately to visit specialist doctor. The glue is not toxic.

The values given herein are typical results of laboratory test. They are thus representative for guidance only and therefore do not constitute a specification of form part of contract for factual purpose.