

LR Ceramatrix 01-50

Fire-resistant adhesive

TDS-No. 9100

Low-viscosity, water-based, one-component noncombustible adhesive with endothermic effect, made of natural components, mainly rock formations and basalt microfiber. LR Ceramatrix 01-50 is used to bond products made of mineral fibers (basalt, carbon, glass) as well as mineral wool and/or metals.



- ✓ 100% natural origin
- ✓ inorganic and antibacterial
- ✓ non-combustible
- ✓ no smoke or fuse in case of fire
- ✓ high temperature resistant (after drying)
- ✓ safe for people and environment
- ✓ high adhesive properties
- ✓ moisture-resist

Properties	Description
Density	1,75 g/cm ³ +/-10%
Viscosity	5.000 +/-1.000 Pa*s
Color	Light yellow - grey
Fire behavior	noncombustible A1
Thermal stability	1.300 °C
Packaging unit	8,75 / 17,5 kg (5 l and 10 l buckets), 350 kg (200 l drums). Other packing units on request.
Fixation and drying	Superficial film formation begins after approx. 3-5 minutes, recommended processing time up to approx. 20 minutes. At room temperature the strength of the adhesive is reached after approx. 4 hours, full hardening after approx. 24 hours. Restrictions in contact with the ambient air prolong the curing times (CO ₂ curing). The surfaces must be clean, dry and free of dust and grease. When used for 3D modeling or for application thicknesses of approx. 3 mm or more, the drying time can be accelerated by approx. six times by adding a hardener (available on request).
Storage	Protect from moisture and frost, recommended storage at -5°C to + 40°C, after use the container must be closed. Shelf life 6 months when stored closed. Consume opened containers promptly.
Processing note:	The glue is ready to use and should be stirred briefly before use. Due to special electrostatic additives, thorough stirring is not necessary. The adhesive mass can be applied over a large area or in spots with a brush or notched trowel, as well as by means of a squeegee or roller method. Surface must be free of grease. Quantity consumption: 200 - 800 g/m ² for a flat surface, depending on the nature and absorbency of the component to be connected. To be processed at +5° to +30° at max. 95% humidity. For sandy or highly absorbent substrates, we recommend a primer coat of Ceramant (available on request). After use, the tools must be cleaned with water immediately.
Safety instructions	When processing, the guidelines issued by the chemical industry and the employers' liability insurance association in conjunction with the safety data sheets must be observed.
General instructions	The above data and information are based on tests and investigations carried out and are intended to provide guidance to the user. Users must confirm and ensure the suitability of this product for the intended purpose through their own investigations and tests.

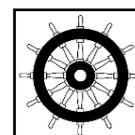
Application

- ✓ Ceramatrix is suitable for indoor use in shipbuilding, mechanical engineering and architecture, in particular for the manufacture of refractory connections.
- ✓ For manufacturing of fire-resistant sandwich panels in building industry and engineering
- ✓ Suitable for components made of mineral fiber (basalt, carbon, glass), mineral wool and metals.
- ✓ After drying workable with ordinary cutting and grinding tool



Certification

- ✓ CBG Composites GmbH CBG lets certify its products manufactured for the use in shipbuilding in accordance with valid IMO MED guidelines. We provide you further relevant information upon request



Subject to modifications

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