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# Vatral® 200

## Fire Protection Adhesive



### Technical data sheet

Density	approx. 1,60 g/cm <sup>3</sup>		
Colour	light ivory		
Behaviour in fire	non combustible	According to IMO FTPC Part 1	Module B: EC-Type Examination Certificate Certificate No. 118499-00 Module D: Certificate No. SEE 20049
	A1	According to DIN EN 13501-1:2019-05	Classification Report: KB-Hoch-141113-5
Determination of adhesive strength	0,4 N/mm <sup>2</sup>	Comparable to DIN EN 1015-12:2016-12	
Fracture pattern	A		
Viscosity	Viscous		
pH-value	approx. 11 at 23 °C		



### Product Description

Vatral® 200 Fire Protection Adhesive is a non combustible, inorganic, single component adhesive. Based on alkali silicate with excellent permanent adhesion, high strength and hydrophobic equipment. The adhesive is usable for temperatures up to 1250 °C also at repeated cooling's.

### Area of Application

Vatral® 200 Fire Protection Adhesive can be used for fireproof glueing of steel pins, anchor and mineral insulants. The adhesive can be used to the cladding by mineral insulants.

### Processing

The adhesive is ready for use. Mix the bucket content thoroughly before processing. The adhesive can flatly or selectively be applied with a spatula or from the tubular bag. The combing with a serrated spatula secures an even layer thickness and extend the time for joining the materials to be connected together. The processing also can be carried out in the squeegee or rolling process. Vatral® 200 does not tend to flow and forms a top flat film already after 4 minutes (recommended process time until 15 minutes at use of serrated spatulas).

Sufficient contact with the surroundings air has to be ensured to the tempering of the adhesive. The areas to be treated have to be clean, dry, dust-free, and grease free.

During processing the room temperature must not be lower than 10 °C. We recommend a pre-touch with Vatral® L 200B/30 for sandy and extremely absorbent surfaces. After use the tools have to be cleaned with water immediately.

### Application Amount

The application amount depends on the surface texture.

### Drying Times

Vatral® 200 Fire Protection Adhesive hardens both pure physically by water removal and by reaction with air. The strength of the adhesive is achieved at room temperature after approx. 4 hours. The complete curing after approx. 24 hours. Restrictions in the contact with the surroundings air prolong the end hardness time (CO<sub>2</sub> curing).

### Storage and Transport

Vatral® 200 Fire Protection Adhesive should be stored frost-free and shall be protected from heat and direct solar radiation. Seal opened containers properly. Unopened containers are stable for at least 24 months if stored appropriately. Not to be stored in aluminium or galvanized containers. The storage and transport temperature must not be lower than 10 °C.

### Delivery Form

- Foil tube: **100 ml**
- tubular bags: **600 ml**
- bucket: **5 kg and 15 kg**

Other container sizes on request.

### Risk assessment according to the Requirements of Directive 2014/90 / EU, Annex II, Part I.3

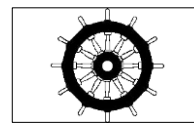
All reasonably foreseeable risks are covered by the applicable standards.

### Additional Notes

Weak irritancy at touch with the eyes and the skin. In case of contact with eyes or skin wash immediately with plenty of water. Please wear suitable protective gloves and safety goggles. The specifications on the safety data sheet have to be observed.



Ref.-No.: 13015



Release of the **Bundeswehr Research Institute for Materials, Fuels and Lubricants (WIWeB)** for the use of Vatral® 200 on ships/boats of the German navy to the glueing of insulants.