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# Vatral® Defence A1

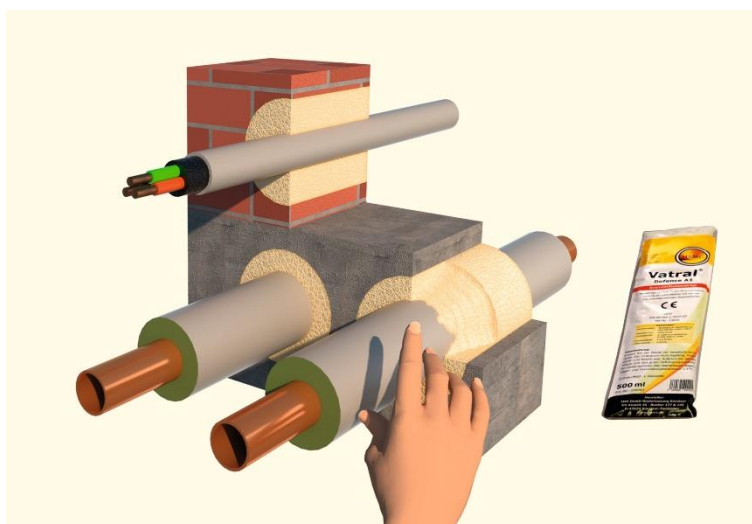
## Mortar



according to EN 998-2, for the closure of remaining gaps according to German MLAR/LAR/RbALei with heat and fire insulating properties

### Technical data sheet

Dry bulk density	Approx. 180 kg/m <sup>3</sup>		
Yield	1:1		
Colour	Cream		
Consistency	Plastic mortar		
Behaviour in fire	A1	According to DIN EN 13501-1:2019-05	Classification report KB-Hoch-110856-7
$\lambda_{10,dry,mat}$	0,052 W/mK	According to ISO 8302, EN 12667	
Melting point	$\geq 1000$ °C	Comparable to DIN 4102-17:1990-12	
Compressive strength	$\geq 0,4$ N/mm <sup>2</sup>	According to DIN EN 1015-11:2020-01	
Chloride content	$\leq 0,01$ %	According to DIN EN 1015-17:2005-01	



### **Product Description**

Vatral® Defence A1 is a fibre-free high temperature resistant and ready to use mortar with excellent fire protecting and heat insulating properties.

Vatral® Defence A1 is produced from closed-celled lightweight fillers in combination with new hybrid binders from the Nano Technology.

### **Area of Application**

Vatral® Defence A1 is used for the closure of remaining gaps according to Model Conduit Systems Directive (German designation: MLAR, issued 2005) and the building law introduced directives from the federal states.

### Processing

Before processing the mortar has to be mixed, until a smooth consistence is yielded. The processing can be conducted by spatula. The surface has to be dry, dust-free and free of grease. During processing the room temperature must not be lower than 5 °C.

### Product Properties

Non-flammable, high temperature resistance, low thermal conductivity, low weight, ready to use, processible with spatula, workable without framework (also on ceilings overhead), self-hardening, no shrinking while drying, easy to apply and to process, etc.

### Drying Times

At room temperature hardening per cm of layer thickness is completed after 48 h. High humidity, low temperatures as well as limited ventilation lengthen the drying time.

### Storage and Transport

Vatral® Defence A1 has to be dry, cool and closed stored and transported. Open containers close tightly. Unopened containers are stable for at least 24 months if stored appropriately. The storage temperature must not be lower than 5 °C.

### Delivery Form

- tubular bags: **500 ml**  
- bucket: **1 - 2,5 - 5 liter**

Other container sizes on request.

### Additional Notes

A small contingent of the binding material evaporate at temperatures higher than 150 °C.

More data in the safety data sheet are to be concerned.



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