

SkamoAlu Mortar 1450

Industry

		Value	Unit
Maximum service temperature		1,450	°C
		2,642	°F
Grain size	Max. 10%	< 0.5	mm
	Min. 65%	> 0.25 < 0.125	mm mm
Mixing water per 100kg dry material		23 to 28	L
Base material		Chamotte	

Chemical analysis			
Silica	SiO ₂	53	%
Ferric oxide	Fe ₂ O ₃	2	%
Alumina	Al ₂ O ₃	38	%
Sodium oxide + Potassium oxide	Na ₂ O + K ₂ O	3.5	%

General			
Bag size		25	kg
		55.1	lb
Quantity to set 1m ³ (35.3ft ³) of bricks (equiv. 500 standard 230 × 114 × 76mm, joint thickness 2mm)		124	kg
		273	lb
Quantity to fix 1m ² (11ft ²) of board area		5.9	kg
		12.9	lb

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted. Revision number: 13.1.2021

Type

Dry mortar in bags of 25kg.

Storage

Dry and cool between 5°C and 35 °C.

The mortar is under these conditions after date of production workable for maximal 12 months.

It is advised to take a sample of the mortar by storage over the expired shelf life to check the workability and setting

Preparation

Advised process temperature is 10°C to 30 °C. The mortar shall be stored minimal 24 hours at this temperature prior to use.

Cooling of the material is strongly recommended to maintain the properties of the castable by installation above ambient temperature of 30°C.

Heating of the material is strongly recommended to maintain the properties of the castable by installation below ambient temperature of 10°C.

Use clean equipment and tools; contamination may negatively influence the properties of the mortar.

Mixing

The mixer must be loaded with a sufficient quantity of dry mortar to produce a homogeneous mix.

The mortar needs to be intensively mixed in a slow speed mixer to prevent air penetration during mixing. Foamy mortar is not allowed to be used and must be discharged.

Mix the dry mortar shortly in a clean and pre-damped counter current mixer until all particles are finely mixed.

Add, during rotation of the mixer, the minimum amount of potable water with a temperature of 5 °C till 20 °C. The amount of potable water is shown on the data-sheet of the product.

Mix the mortar 3 minutes and check the consistency of the mix and add if necessary a part or the remaining amount of the potable water to obtain the proper consistency and mix another 2 minutes.

There is no time limit for mixing. Mortar may be mixed up to 48 hours before use. Air setting mortar needs to be covered with plastic foil or with a water film on top of the mortar to prevent setting.

Mix the mortar until all lumps are dissolved and that the mortar can easily be smeared. The mortar must have a consistency like a heavy cream.

Mortar bins need to be clearly marked for each type of mortar.

Safety

Take care of all safety rules for work environment, equipment, tools and personal safety protection.

Avoid unnecessary dust while filling the gunning machine.

Consult the Safety Data Sheet of the product.

Use safety boots, gloves and a dust mask P-2 during the activities.

Follow the special instructions in case of a "danger" sticker.

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