

# PROPERTIES

Refractory, beige-coloured modelling concrete for temperatures up to 1000 °C

# **APPLICATIONS**

Production of refractory concrete objects using the modelling technique

Applicable for indoor and outdoor use.

## **COMPOSITION**

Calcium aluminate cement, aggregates, admixtures

# SUBSTRATE / FORMWORK

When concreting onto existing concrete, the substrate must be clean, load-bearing and dust-free.

For a good bond with the substrate, it is recommended to precoat the substrate with a cement slurry consisting of refractory cement and water and to apply the fresh mortar on top of it wet-on-wet. The slurry should have approximately the consistency of wall paint and the substrate must have the greatest possible roughness.

## VERARBEITUNG

#### Working temperature

Do not apply at air, material and substrate temperatures below +5 °C and above +30 °C.

### Working time

approx. 30 minutes (times refer to +20°C and 65% relative humidity.) Mortar that has already set must not be diluted with additional water, mixed and further processed.

### **Mixing / Preparation**

Mix dry mass with approx. 200 ml clean water per kg to a soft-plastic consistency. Rubber gloves must be worn when mixing and kneading by hand. It is recommended to mix only small quantities so that they can be used in a short time.

For modelling, the consistency of the mass must be approximately that of soft clay. For laminating, it must be slightly softer still. Even very small amounts of too much water can make the mass too soft and thus unusable for processing in the desired technique. In this case, further dry mortar must be kneaded in until the consistency is ideally adjusted. Up to 15 g of cement-compatible colour pigments can be added per kg of dry matter. When selecting the pigments, it should be noted that some colour shades change when fired. Chrome oxide green, iron oxide red, titanium dioxide white and ultramarine blue are colour-stable.

### **Application / Processing**

The material is applied quickly immediately after mixing. In the case of multi-layer construction, wait at least until the preceding layer has set and pre-wet the substrate again with cement slurry.

### Setting / Hardening

Protect from too rapid water extraction by sun, wind or draught.

Low temperatures delay, high temperatures accelerate solidification and hardening.

### **Tool cleaning**

Clean tools and equipment with water immediately after use.

### **Other information**

No additives may be added.

The first firing should only take place after thorough drying and with a low temperature gradient. The workpiece should be at least 1 to 2 weeks old.

# **CONSUMPTION / YIELD**

Consumption: approx. 1.9 kg/l

Yield: 13 l wet mortar per 25 kg bag

# **TECHNICAL DATA**

Processing temperature: Working time at 23 °C: Water requirement: Mixing time: Compressive strength after 28 days: Grain size: Hue: +5 °C to +30 °C approx. 30 minutes approx. 5 litres per 25 kg approx. 1 minute ≥ 35 N/mm<sup>2</sup> 0-1.2 mm beige brown

# **DELIVERY FORM**

25 kg bag, 5 kg bag

## **STORAGE**

Store in a dry and appropriate place.

Can be stored for at least 12 months from the date of production in the sealed original container.

## SAFETY INSTRUCTIONS

The product reacts strongly alkaline with moisture/water. Therefore protect eyes and skin. Wear rubber gloves when applying the product manually. In case of contact with skin, rinse with plenty of water. In case of eye contact, consult a doctor immediately. Observe further instructions in the safety data sheet.

GISCODE: ZP1 (cementitious products, low in chromate).

## DISPOSAL

Dispose of in accordance with official regulations. Empty containers should be recycled. Material residues can be disposed of according to the Waste Catalogue Ordinance under waste code 17 01 01 (concrete) or 10 13 14 (concrete waste and concrete slurry).



Application data sheet

GRISU

# **GENERAL INSTRUCTIONS**

The information in this leaflet only represents general recommendations. Should any questions arise in a specific application, please contact our responsible technical sales consultant or our online forum

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Application data sheet

