

# DUROSTICK D-31



Reinforced building mortar



## PROPERTIES

Ready mixed industrialized mortar, based on high strength gray Portland cement, selected aggregates with uniformed grain sizes and modified polymers. Distinguished for its strong adhesion and powerful bonding strength, its high resistance to moisture and frost as well as its excellent workability. It ensures unique resistance against impacts and vibrations - whether natural or generated from excavation equipment operating in adjacent spaces.

## APPLICATIONS

D-31 building mortar is ideal for laying regular and thermal insulating bricks, oversized bricks, cement blocks, building paving stones, slabs and natural stones. It is applied indoors and outdoors. Its use for masonry construction ensures economy compared to traditional building materials, because the D-31 does not need additional improvements to ensure unbreakable welding.

## USE

### 1. Surface preparation

Floors and walls to be built should be free of loose materials and dust. Also, they have to be soaked before application.

### 2. Application

Empty 25kg of D-31 mortar in a clean container with 4.0lt of cool water (0.8lt for 5kg). Stir with a low-rpm drill (small amount) or use a cement mixer (larger amount) until a lump free, homogeneous mass is created. The mixture remains workable for about 3 hours. Apply the product using a gauging trowel and immediately install over it the building element desired to adhere.

## CLEANING

Clean all tools with water, immediately after use.

## CONSUMPTION

Indicatively, for bricks with dimensions 9x6x19cm use 20kg of mortar/m<sup>2</sup>.

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### STORAGE

- 25kg Paper bag with valve: At least 12 months from production date
  - 5kg Plastic bag: At least 18 months from production date
- Store in the factory sealed packages, in dry and shaded places.

### SAFETY DIRECTIONS

The product contains Portland cement. Before use, refer to the cautions on the product packaging or the Material Safety Data Sheet.

### NOTE

After hardening, the product is harmless to health and the environment.

### PACKAGING

- Carton box with 4 bags of 5kg each one on 900kg pallet
- Paper bag of 25kg on 1,500kg pallet

<b>TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 65% R.H.)</b>	
<b>Form - Color</b>	Cementitious mortar - Gray
<b>Toxic</b>	No
<b>Bulk density of dry mortar</b>	1.45±0.05kg/lt
<b>Bulk density of fresh mortar</b>	2.00±0.05kg/lt
<b>Maximum grain size</b>	5mm
<b>Water requirement</b>	4.0lt water in 25kg mortar
<b>Application temperature</b>	From +5°C to +35°C
<b>Temperature resistance</b>	From -30°C to +90°C
<b>Maximum application thickness</b>	2cm
<b>Pot life</b>	At least 3 hours
<b>PRODUCT PERFORMANCES</b>	
<b>Strength after 28 days, per EN 1015-11, to:</b>	
• flexion	4.10±0.50 N/mm <sup>2</sup>
• compression	22.00±1.00 N/mm <sup>2</sup>
• adhesive	0.70±0.1 N/mm <sup>2</sup>
<b>Capillary water absorption (c),per EN 1015-18</b>	≤ 0.4kg/m <sup>2</sup> min <sup>0,5</sup>
<b>Reaction to fire, per EN 13501-1</b>	Euroclass A1

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