

5.2 Special building mortars

DUROSTICK D-31 Fortified building mortar

PROPERTIES

Ready mixed gray mortar, based on high strength Portland cement, selected aggregates with uniformed gradation sizes and modified polymers. Distinguished for its strong adhesion, 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 bricks (pic.2), and cement blocks, for building paving stones and slabs as well as natural stones (pic.1). Interior and exterior walls built with D-31, ensure savings when compared to walls being built using traditional materials. That is because D-31 does not need any improving additives to ensure unbreakable bonding.



pic. 1



pic. 2

USE

1. Surface preparation

Floors and walls to be built have to 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).

Mix with a low rpm electric 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.



TECHNICAL SPECIFICATIONS (Measurement conditions 20 °C and 65% R.H.)

Form - Color	Cementitious mortar - Gray
Toxic	No
Bulk density of dry mortar	1.45 ± 0.05 kg/lt
Bulk density of fresh mortar	2.00 ± 0.05 kg/lt
Maximum grain size	5 mm
Water requirement	4.0lt water in 25 kg mortar
Application temperature	From +5 °C to +35 °C
Temperature resistance	From -30 °C to +90 °C
Maximum application thickness	2 cm
Pot life	3 hours

MECHANICAL STRENGTHS

Strength after 28 days, per EN 1015-11, to:

- flexion 4.10 ± 0.50 N/mm²
- compression 22.00 ± 1.00 N/mm²

Adhesive strength after 28 days, per EN 1015-12 0.70 ± 0.10 N/mm²

Capillary water absorption (c), per EN 1015-18 ≤ 0.4 kg/m².min^{0.5}

CONSUMPTION

Indicatively, for bricks with dimensions 9x6x19cm use 20kg of mortar/m².

STORAGE

- 25kg Paper bag with valve: 12 months from production date
 - 5kg Plastic bag: 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
Paper bag of 25kg on 1,500kg pallet