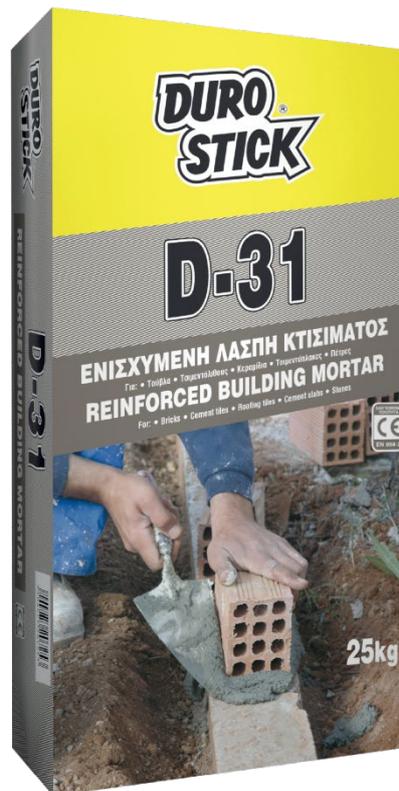


D-31



Fortified building mortar



■ PROPERTIES

Ready mixed industrial mortar, based on high strength gray Portland cement, selected aggregates with uniformed grain sizes and modified polymers. Distinguished by 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. Classified as general purpose masonry mortar per EN 998-2.

■ APPLICATIONS

D-31 building mortar is ideal for laying regular and thermal insulating bricks, oversized bricks, cement blocks, sidewalk pavers, slabs and natural stones. Use it for interior and exterior spaces. Its use in wall and masonry construction ensures economy compared to traditional building materials, because D-31 does not

need improving additives to ensure unbreakable installation.

■ USE

1. Surface preparation

Floor and wall/masonry surfaces to be constructed must be free of loose sections and dust. They should also be soaked before the application.

2. Application

Empty 25kg of mortar into a clean container with 4.0lt of cool water (0.8lt for 5kg). Mix with a low-rpm electric mixer (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 build.

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■ CLEANING

Clean all tools with water, immediately after use.

■ CONSUMPTION

Indicatively, 20kg mortar/m² for 9x6x19cm bricks.

■ 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 Safety Data Sheet.

■ PACKAGING

Carton box with 4 bags of 5kg each one on 720kg pallet
Paper bag of 25kg on 1.500kg pallet

TECHNICAL SPECIFICATIONS (Measurement conditions 20°C and 65% R.H.)	
■ Form - Color	Cementitious mortar - Gray
■ Bulk density of dry mortar	1.45±0.05kg/lt
■ Bulk density of fresh mortar	2.00±0.05kg/lt
■ Maximum grain size	5mm
■ Water requirement	4.0lt water in 25kg mortar
■ Application temperature	From +5°C to +35°C
■ Temperature resistance	From -30°C to +90°C
■ Maximum application thickness	2cm
■ Pot life	Approximately 3 hours

PRODUCT PERFORMANCES	
■ Strength after 28 days, per EN 1015-11, to:	
• flexion	4.10±0.50 N/mm ²
• compression	22.00±1.00 N/mm ²
■ Strength after 28 days, per EN 1015-12, to:	
• adhesion	0.70±0.1 N/mm ²
■ Capillary water absorption (c), per EN 1015-18	≤ 0.4kg/m ² min ^{0.5}
■ Reaction to fire	Class A1

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The technical specifications and directions of use contained in this technical data sheet are the results of the knowledge and experience of the company's research and development department, as well as from the real-life applications of the product. The recommendations and suggestions regarding the use of the products are made without guarantee since the respective conditions during their application are beyond the control of the company. For this reason, it is the user's responsibility to make sure that the product is suitable for the intended application as well as the application conditions of the project.