

KDW 138 MORTAR FOR GLASS AND DECORATIVE BRICKS

M20 -A1 ACCORDING TO
EN 998-2

DESCRIPTION

KDW 138 is an adhesive based on cement, modified by polymer additives, adequate for building and mounting decorative structural elements such as glass blocks, artificial rock, decorative blocks, etc. It consists of cement, quartz sand, lime fillers and improvement additives.

KDW 138 has very strong adhesion on all common sub-layers and high resistance against weather conditions (rain – heat-wave - frost). It has the ability to be applied at thicknesses of 1-2cm. It is produced and inspected as per EN 998-2.

FIELDS OF APPLICATION

For adhesion and mounting of:

- glass blocks
- decorative blocks
- natural or synthetic rock

On common substrates made of:

- concrete
- light concrete

- renders
- flat walls with filled joints
- industrial flooring, etc.

Adequate for:

- interior and exterior use
- floors and walls

ADVANTAGES - CHARACTERISTICS

- Applied at a thickness up to 2cm
- Adequate for mounting
- Strong adhesion – Fast application
- Excellent workability and thixotropic behavior
- Resistance to humidity and frost
- CE certified- as per the European standard EN 998-2

SUBSTRATE PREPARATION

The sub-layer must be flat, free from any brittle and foreign bodies such as for example plaster residue, paint, oils, etc. and must not have any cracks. Moreover the sub-layer must be stable and free from any shrinkage and distortion forces.

Further more it should not be subject to vibrations. Smooth or decorative blocks with low absorbing ability must be sprayed with water or primed with a special primer.

APPLICATION

In a clean container add 4.5-5.0 liters of clean water and gradually empty the content of a 25 Kg sack of product KDW 138, mixing continuously with an electric mixer in order to acquire a uniform slurry mass. Let the resulting mixture age for 5 minutes and mix again. The mixture is ready to be used within the next 4 hours. Following the preparation of the mixture do not add more water in order to correct the workability of the slurry. This would lead to the reduction of its tolerances and the increase of its shrinkage. KDW 138 is spread on the surface using the smooth side of the spatula and then the adhesive layer is combed using the toothed side.

The joints are smoothened using a special spatula or sponge. The spatula teeth size must be 10mm. KDW 138 is also used for mounting. Following completion of the application the surface must be cleaned with a wet sponge. The open time for application is 10min. Any excess adhesive must be removed from the joints. During application and for the next 24 hours the environmental and sub-layer temperature must be between +5°C and +35°C. The adhesive is cleaned with water while still wet. When it hardens it is removed mechanically.

The technical information and instructions contained in the present brochure and referring to the application and end use of Thrakon products are based on the up to now know-how and experience of the Company with regards to the products and are provided in good faith as long as such products are stored, used and applied as per Thrakon recommendations. Due to the inability, on our part, to directly inspect the conditions prevailing at the worksite as well as the application procedures of the product, the Company does not provide any guarantee with regards to the adequacy of its products for specific purpose while the Company shall not bear any legal responsibility based on the information stated in the present brochure or any other written, oral, or otherwise provided recommendations and instructions. The users of the products are advised to perform a limited surface testing of the products adequacy for the eventual application and use intentions. Thrakon reserves the right to modify the features of its products without prior notification. All orders shall be approved only following acceptance of the above and under the eventual Commercial Policy terms of the Company. The issuance of the present brochure voids any prior version

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CONSUMPTION

The consumption of KDW 138 depends on the sub-layer type, the decorative elements type, the joint thickness, the tools and the application method. Indicatively, for:

- glass blocks having dimensions 19x19x8cm and joint thickness 1cm the consumption is 17-19 kg/m²
- decorative blocks having dimensions 19x5x1,5cm and joint thickness 1cm the consumption is 10 kg/m²

PACKING - STORAGE

The product is packed in plastic bags of 5Kg and paper bags incorporating a valve of 25Kg. It is preservatively stored on wooden pallets

and in dry environment under temperatures greater than 0°C for 12 months of the production date.

NOT RECOMMENDED

It is not recommended for usage in:

- sub-layers made of plaster without prior priming
- glass, plastic, iron, wood
- heated floors
- pools, tanks

- old tiles
- floors submitted to distortions and vibration

In these cases, there should be usage of special THRAKON adhesive types.

PRECAUTIONS

KDW 138 contains cement that reacts with water producing an alkaline solution. For this reason protect your eyes and skin. In case of contact wash with plenty of water. In case of contact with the eyes seek immediately medical advice. Read

the information contained on the label and the Technical Sheet of the product before use. Use adequate protective clothing and gloves. The Safety Sheet of the product is availed to professionals upon request



ACCORDING TO EUROPEAN STANDARD EN 998-2 CATEGORY M20 – A1

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			dry powder
Color			white / grey
Application thickness	(mm)		10
Dry bulk density	(gr/cm ³)		1,35-1,45
Bulk density of fresh mortar	(gr/cm ³)		1,8-1,9
Maturing time	(min)		5
Skin formation	(min)		5
Resistance to temperature	(°C)		-30 to +90
Maximum grain size	(mm)		≥0,5
Working time	(h)	EN 1015 - 9	4
Correction time	(min)	EN 1015 - 9	≥10
Open time	(min)	EN 1015 - 9	≥10
Compressive strength	(N/mm ²)	EN 1015-11	≥20
Flexural strength	(N/mm ²)	EN 1015-11	≥5,0
Resistances development time	(days)		28
Heat loss	(%)		83
Consumption	(Kg/ m ²)		14 - 20
Water demand	(ml water /100g of dry mortar)		18 - 20

Note: The measurements were taken in laboratory environment under a temperature of +23°C, Relative humidity 50% and without ventilation. It is possible for them to vary depending on the conditions prevailing at the worksite such as temperature, humidity, ventilation, sub-layer and frame absorbance.

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