

## DESCRIPTION

PAW 290 is a one-element, concrete-based mortar, modified through polymer additives, appropriate for building of structural elements made of porous concrete (YTONG, ALPHA BLOCK, etc). It contains cement, quartz sand, limestone fillers and improvement additives.

It has very strong adhesion on all common substrates as well as resistance to freezing and moisture. It contains aggregates with thin grains and therefore guarantees further heat insulation in joints of structural elements obstructing the formation of thermal bridges.

## FIELDS OF APPLICATION

**It is appropriate for both interior and exterior applications.**

For extremely strong adhesion, for interior and exterior use and for horizontal or vertical surfaces:

- Porous concrete (YTONG, ALPHA BLOCK, etc)
- Bricks
- Pumice stones
- Limestone
- Stones

Appropriate for :

- building
- ceramic tile adhesion.
- joint of structural elements that are already built

## ADVANTAGES - FEATURES

- Produced with quartz sand.
- Strong adhesion between structural components
- Excellent workability and thixotropic behaviour
- Sticks to building surfaces without drooping

- High resistance – fast application
- Thin application joint for heat channels prevention
- Resistance to humidity and frost
- CE-certified – according to the European Standard EN 998-2

## SUBSTRATE PREPARATION

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## APPLICATION

The appropriate substrates are concrete, self-levelling floors, cement screed, light concrete. The substrate must be flat and free from brittle and foreign bodies. Structural elements surfaces must not have any projections exceeding 2 - 3 mm, otherwise these must be levelled. In a clean container add 6-7 litres of clean water and gradually empty the content of a 25 Kg sack of product PAW 290, mixing continuously with an electric mixer in order to acquire a uniform mortar 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 mortar. This would lead to the reduction of its tolerances and the increase of its shrinkage. PAW 290 is spread over the surfaces of structural materials with the help of special toothed spatula with triangular teeth, appropriate for application on elements of porous concrete (see YTONG spatula)



The thickness of the adhesive coat depends on the size of the teeth on the special spatula (4mm). The open time for application is 5 min. Good contact of the structural element with the adhesive is ensured either with pressure or with tapping. The same mortar can also be used for joint trowelling.

Any excess mortar must be removed from the joints. During application as well as for 24 hours after application the temperature of the environment and the substrate must be between +5°C and +35°C. The mortar is cleaned with water while still wet. When it hardens it is removed mechanically.

## CONSUMPTION

Indicative consumption: 1 bag of 25 Kg per 1.25 m<sup>3</sup> of porous concrete (YTONG) This may vary depending on the morphology of the substrate and the shape of the structural element.

## PACKAGING - STORAGE

The product is packaged in valve-sacks of 25 Kg, stored on wooden pallets in dry environment at temperatures above 0°C for 12 months after production.

## TOOLS

Building spatula 4 mm with triangular teeth.

## TOOL AND MACHINERY CLEANING

Rinse with water immediately after use.

## APPLICATION IS NOT RECOMMENDED

Under frost or heat-wave environmental conditions (below +5°C or over +35°C).

## PRECAUTIONS

PAW 290 contains cement and reacts with water, creating 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 available to professionals upon request.

*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.*



## TYPE ACCORDING TO EUROPEAN STANDARD EN 998-2 CLASS M5 – A1

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			dry powder
Color			grey/white
Application thickness	(mm)		1-2
Temperature resistance	(OC)		-30 to +90
Maximum grain size	(mm)		0,7
Workable life	(h)	EN 1015-9	4
Open time / Correction time	(min)	EN 1015-9	≥7
Dry bulk density	(Kg/l)		1,3-1,6
Bulk density of fresh mortar	(Kg/l)	EN 1015-6	1,25-1,35
Compressive strength	(N/mm <sup>2</sup> )	EN 1015-11	≥5
Flexural strength	(N/mm <sup>2</sup> )	EN 1015-11	≥2
Strengths development time	(days)		28
Consumption	(Kg/m <sup>3</sup> )		20
Water demand	(ml water/ 100g of dry mortar)		25-27

**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, absorbability of the substrate.

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