

DSF 360 **BRUSHABLE SEALING SLURRY**

Product for concrete protection

- **COATING (C)**
- **MC-IR**

ACCORDING TO
EN 1504-2 &
EN 1504-9

DESCRIPTION

DSF 360 is a cementitious brushable sealing slurry, modified by polymer additives, that is suitable for applications under both positive and negative hydrostatic pressure. It consists of cement, quartz sand, pozzolans and polymer additives. **DSF 360** provides excellent adhesion on all common substrates and resistance to frost moisture. It is suitable for indoor and outdoor use. After

mixing with water the product turns to a smooth slurry that is easy to apply with a brush, paint brush or trowel. Meets the requirements defined by the standard **EN 1504-9** and it is classified as product for surface protection of concrete according to the standard **EN 1504-2 coating (C)** and the **MC και IR** principles.

FIELDS OF APPLICATION

It is suitable for sealing concrete surfaces such as:

- basements
- water tanks
- tunnels
- foundations
- ducts
- elevator wells
- drinking water tanks in accordance with the W-347 and W-270.

It can also be applied on:

- bricks
- stone
- cementitious floor screeds
- external surfaces of chimneys
- plaster, under the condition that the plaster is strongly bonded to the substrate.

ADVANTAGES - FEATURES

- Excellent sealing against positive and negative hydrostatic pressure.
- Produced with quartz sand.
- Strong bonding on inorganic substrates.
- Resistance to humidity and steam
- Ideal for waterproofing surfaces that are going to be covered with tiles.
- It is classified as product for surface protection of concrete according to standard **EN 1504-2**.

SUBSTRATE PREPARATION

Firstly ensure that the surfaces are clean and free from loose foreign particles, salts, oils and other pollutants. Remove any protrusions and chips, polyurethane or other soft material.

Cut the protruding steel bars at a depth of 1,5 - 2,0 cm. Patch any holes or cracks using the fast-setting repairing

mortar **WRM 520**. Make sure that during product application there is no running water on the substrate. Water leaks must be sealed using the sealing mortar **WRM 500**.

Wet the surface until saturation and remove any excess water.

APPLICATION

In a clean container add 6,5-7,25 lt of clean water and gradually empty the content of the bag while mixing continuously in order to create a uniform thick paste that can be spread without running. Apply the first coat using a brush paying attention so that the product covers all gaps. When the first coat starts to set and prior to its complete drying, apply the second coat cross-wise. If necessary wet the first coat before application of the second one. The second coat may be applied also using a trowel, as long as the surface allows it. In this case the paste must be a little thicker.

In case that increased mechanical strength is required, it is recommended to apply a third coating. If the surface

has many abnormalities and you wish to level it out you can plaster it using the waterproofing plaster **DSF 370**. In this case too, you must apply the plaster while the surface of **DSF 360** is still wet. The product must be applied when ambient temperature is between +5°C και 35°C. If ambient temperature is high, mechanical strengths develop faster while material workable time is reduced. Under low temperatures, mechanical strengths developed in slower. It is recommended to maintain the surface wet and to prevent fast evaporation during the first days of application, particularly when the temperature is high or when application is done under strong sunlight.



CONSUMPTION

Two or more layers are required depending on the water loads.

Water load	Minimum consumption	Minimum Layer's thickness
Humidity	2.0 kg/m ²	About 1.5mm
Water not under pressure	3.0 kg/m ²	About 2.0 mm
Water under pressure	3.5-4.0 kg/m ²	About 2.5 mm

TOOLS

An electric mixer with the appropriate blades is required for the manufacture of the product. Apply with hard brush or spatula.

TOOLS AND MACHINES CLEANING

Wash with plenty of water immediately after use.

PACKAGING - STORAGE

The product is packaged in plastic bags of 5Kg or in paper bags of 25Kg.

it is stored in original, sealed packaging in a dry environment protected from frost and moisture for

- 12 months from the production date in paper bag of 25kg.
- 18 months from the production date in plastic bag of 5kg

NOT RECOMMENDED

Applying this material is not recommended :

- In environmental conditions of frost or heat.
- On surfaces subjected to heavy traffic and vibrations.

- Under the presence of water.

PRECAUTIONS

The product DSF 360 contains cement and reacts with water to produce alkaline solution. Therefore, protect your eyes and skin. In case of contact, wash with plenty of water. In case of eye contact, immediately ask medical

advice. Read the information on the label and the Product Technical Sheet before use. Wear the appropriate protective clothes and gloves. The MSDS of the product is available upon request to professionals.

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.

DSF 360

BRUSHABLE SEALING SLURRY



ACCORDING TO THE EUROPEAN STANDARDS EN 1504-2 / COATING (C) & EN 1504-9

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
Form			dry powder
Color			grey/white
Temperature resistance	(°C)		-30 to +90
Maximum grain size	(mm)		0,5
Maximum application thickness per layer	(mm)		1
Maximum thickness of total application	(mm)		3-4
Compressive strength	(N/mm ²)	EN 12190	29±3
Flexural strength	(N/mm ²)	EN 12190	5±1
Dry bulk density	(Kg/m ³)	EN 1079-3	1150±50
Bulk density of fresh mortar	(Kg/m ³)	EN 1015-6	1770±70
Water demand	(ml of water /100g dry concrete)		28-31
Adhesive strength at normal conditions	(N/mm ²)	EN 14981	≥0,5
Adhesive strength after immersion in water	(N/mm ²)	EN 14981	≥0,5
Adhesive strength after heat ageing	(N/mm ²)	EN 14981	≥0,5
Tensile adhesion after freeze-thaw cycles	(N/mm ²)	EN 14981	≥0,5
Watertightness (at 150kPa)		EN 14981/ EN 206	no water leaks
Bond strength	(MPa)	EN 1542	≥1,0
Water absorption (w)	(kg/m ² ·h ^{0,5})	EN 1062-3	<0,1
Water vapour diffusion (Sd)	(m)	EN ISO 7783-2	<5 (Class I)
Pot life	(h)		approx. 1

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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