

## **DSF 350 FLEX** **FLEXIBLE, 2-COMPONENT, BRUSHABLE** **SEALING SLURRY**

### Concrete Protection Product

- **SURFACE (C)**
- **IP-MC-IR**

ACCORDING  
EN 1504-2 &  
EN 1504-9

### DESCRIPTION

The product **DSF 350 FLEX** is a flexible, brushable waterproofing mortar suitable for sealing interior and exterior surfaces. It consists of 2 components, a dry powder (component A) and a liquid dispersion (component B). **DSF 350 FLEX** protects building constructions against ground moisture, surface or uprising moisture and water under pressure. It is resistant to frost; it has very good transpiration ability (vapour permeable) and does not corrode the steel reinforcement.

It also has the ability to bridge cracks up to 0,2 mm and exhibits excellent adhesion to various substrates. It meets the requirements of the standard **EN 1504-9** and is classified as a concrete protection product according to standard **EN 1504-2 surface (C)** and principles **IP, MC** and **IR**. It is suitable for drinking water tanks as well as for application on surfaces that comes into contact with food, according to the requirements of **W-347** and **W-270**.

### FIELDS OF APPLICATION

*DSF 350 FLEX is suitable for sealing:*

- surfaces of concrete, brick, aerated concrete block, plaster, gypsumboard, mosaic, wood, metal etc.
- walls of over ground constructions,
- basement walls and foundations,

*It is also suitable for waterproofing surfaces to be covered with tiles or insulating materials such as :*

- Balconies and terraces ,
- inverted roofs
- Underground water tanks
- Wet spaces (bathrooms, kitchens)
- Floors, varnishes
- Wells, tunnels, etc.

### ADVANTAGES - FEATURERS

- Excellent sealing.
- Δυνατότητα γεφύρωσης μικρορωγμών.
- Produced with quartz sand
- Suitable for negative and positive pressures.
- Resistance to moisture and vapor
- Protection against carbon dioxide penetration
- Suitable for use on potable water tanks as well as on surfaces in direct contact with food products, according to W-347 and W-270.
- It is classified as a concrete protection product according to EN 1504-2.

### MIXING

**DSF 350 FLEX** should be used as a system which is prepared and stored in specific proportions. Pour slowly component A (dry mortar bag of 25 kg) in a bucket filled with the component B (liquid part 10Kg). Use an electric stirrer and stir for about 3 minutes until a homogeneous mixture is achieved.

Then gradually add the remainder of the B component while stirring for about 3 minutes until a homogeneous mixture is obtained. The product can be used with in 45 minutes at +20<sup>0</sup> C (the working time could change according depending on the climatic conditions).

### SUBSTRATE PREPARATION

The substrate must be dry, stable, free of dust, dirt, oil, free from decayed material and loose particles. If there are any defects, hollows, etc. on the substrate they must be repaired before applying the product with an

appropriate **THRAKON** repairing material. Coatings of paint must be removed. The substrate should be slightly wet to ensure good adhesion.



## APPLICATION

The application should be made crosswise in two layers at least. Apply the second layer 6 hours after the application of the first layer (the application time depends on weather conditions - never leave more than 24 hours to pass between two layers). The fresh waterproofing layer must be protected from abrupt drying due to sun, wind and rain for three days.

DSF 350 FLEX has high compressive strength and allows to be covered with protective layers such as concrete, floors, tiles or plasters after 3 days. To prevent cracks developed on the substrate, it is recommended to use expansion joints. Sealing of joints requires a suitable elastic insulating product. Do not apply DSF 350 FLEX on frozen substrates, in frost or at high temperatures (substrate temperature above +25° C).

## CONSUMPTION

Requires two or more coats depending on the moisture load.

Charge	Minimum consumption	Minimum thickness
Moisture	2,0-2,5 kg/m <sup>2</sup>	Approximately 1,5mm
Water without Pressure	3,0-3,5 kg/m <sup>2</sup>	Approximately 2,0mm
Water under pressure	3,5-4,0 kg/m <sup>2</sup>	Approximately 2,5mm

## PACKAGING

- A component – bag 25kg (dry )
- B component – plastic bucket 10Kg( liquid part )

## TOOLS

For the preparation of the material the use of an electric stirrer with suitable vanes is recommended. Apply with a stiff brush or trowel

## CLEANING TOOLS & MACHINES

With plenty of water immediately after use.

## STORAGE

The product is kept sealed for a year in dry storage areas.

## NOT RECOMMENDED

Not recommended the application of the product:

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

- During rain.
  - When water leaks exist.
- Not recommended the addition of aggregates, sand , cement, water or other admixtures.

## PRECAUTIONS

DSF 350 FLEX contains cement reacts with water, producing a alkaline solution. For this reason, protect your eyes and skin. In case of contact, wash with plenty of water. In case of contact with eyes, seek immediately medical advice.

Wear suitable protective clothing and gloves. Read the information on the label and in the technical brochure of the product before use. The MSDS of the product is available upon request to the professionals

# DSF 350 FLEX

## FLEXIBLE, 2-COMPONENT, BRUSHABLE SEALING SLURRY



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

TECHNICAL CHARACTERISTICS	UNITS	STANDARD	VALUE
<b>COMPONENT A</b>			
Form			Dry powder
color			Grey/White
Dry density	(Kg/m <sup>3</sup> )	EN 1079-3	1050±50
Maximum grain size	(mm)		0,5
<b>COMPONENT B</b>			
Form			Liquid dispersion
Color			White
Destiny	(Kg/m <sup>3</sup> )	EN 2811-1	1010±50
Flow time using 4mm diameter containers	(sec)	EN 2431	13
pH		EN 787-9	6±0,5
<b>MIX OF READY-TO-USE PRODUCT A+B</b>			
Ratio of ingredients - dry mix : water	(parts w/w)		100:40
Destiny of fresh mixture	(Kg/m <sup>3</sup> )	EN 1015-6	1650±50
Destiny of harden product	(Kg/m <sup>3</sup> )	EN 1015-4	1540±50
Compressive strength	(N/mm <sup>2</sup> )	EN 12190	7,5±0,5
Flexural strength	(N/mm <sup>2</sup> )	EN 12190	2,5±0,5
Adhesion strength in concrete	(N/mm <sup>2</sup> )	EN 13578 / EN 1766 / EN 1542	1,25
Tensile stress (without reinforcement)	(N/mm <sup>2</sup> )	EN 12311-2	1,23
Elongation of fracture	(%)	EN 12311-2	12
Abrasion Resistance (Böme)	(cm <sup>3</sup> /50 cm <sup>2</sup> )	EN 138923	Class A15
Water vapour permeability Sd	(m)	EN ISO 7783-2	<5 (Class I)
Capillary Absorption (w<0,1)	(Kg/m <sup>2</sup> h <sup>0,5</sup> )	EN 1062-3	0,01
Permeability CO <sub>2</sub> (Sd>50m)	(m)	EN 1062-6	62
Watertightness(10 and 60kPa) at 24h		EN 1928	No water leak
Watertightness		EN 14981/ EN 206	No water leak
Adhesive strength at normal conditions	(N/mm <sup>2</sup> )	EN 14981	1.9
Adhesive strength after immersion in water	(N/mm <sup>2</sup> )	EN 14981	1.7
Adhesive strength after heat ageing	(N/mm <sup>2</sup> )	EN 14981	1.8
Tensile adhesion after freeze-thaw cycles	(N/mm <sup>2</sup> )	EN 14981	1.0

**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.

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 veers.