

# ISODUR PK FLEX

LEVELLING FIBRE-REINFORCED MORTAR WITH FINE SANDED FINISH

## 1. DESCRIPTION

*ISODUR PK FLEX* is a fibre-reinforced industrial dry mortar formulated from hydraulic binders, selected aggregates, adjuvants, fibres and resins. *ISODUR PK FLEX* is especially suited for manual application.

## 2. FIELD OF USE

*ISODUR PK FLEX* is especially suited for levelling of the surface of *ISODUR ONE* sprayed thermal render also enabling to achieve fine sanded finishes, on interior and exterior surfaces of walls and ceilings.

*ISODUR PK FLEX* may also be applied over hydraulic renders as finishing coat in double layer SECILTEK coating systems.

## 3. PRODUCT CHARACTERISTICS

Characteristics	Value	Standard
Colour	White	-
Granulometry	< 0,6 mm	-
Paste product	Value	Standard
Mixing water	22,0 % ± 1,0 %	-
Theoretical consumption	1,3 kg/m <sup>2</sup> /mm	-
Hardened Product	Value	Standard
Compressive strength	Class CS III	EN 1015-11
Adhesion to brick / Mode of fracture	0,3 MPa / A and B	EN 1015-12
Density	1300 ± 150 kg/m <sup>3</sup>	EN 1015-10
Modulus of elasticity	4500 N/mm <sup>2</sup>	BS 1881-5

# ISODUR PK FLEX

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Capillarity	W2	EN 1015-18
Permeability to water vapour	$\leq \mu 5$	EN 1015-19
Reaction to fire	Class A1	EN 998-1
Thermal Conductivity	0,45 W/(m.°C) (P=50%)	NP EN 1745

## 4. APPLICATION

### a) Substrate preparation

Substrates should be free from dust, release agents, loose or instable materials, efflorescence, as well as from any type of material which affects normal adhesion conditions.

If the substrate is *ISODUR ONE*, a minimum waiting time is recommended according to the corresponding technical data sheet until *ISODUR PK FLEX* is applied.

### b) Mixture preparation

*ISODUR PK FLEX* should be mixed with the appropriate quantity of water (5,0 to 6,0 litres per 25 kg bag), in small quantities and using an electric mixer, so as to obtain a uniform and lump-free paste.

### c) Application

*ISODUR PK FLEX* should be applied with a metal trowel, in a 2 to 3 mm thickness layer, on hardened base render. *ISODUR PK FLEX* should be applied in at least 2 layers, whereas over *ISODUR ONE*, *ISOVIT REDE 160* should be incorporated.

Work joints should be resumed within a maximum period of 12 hours. So as to minimize work joints, complete panels should always be carried out.

The *ISODUR PK FLEX* final surface should be troweled and the sponge technique should be used to obtain the sanded finish.

In traction areas, especially in the transition between different substrate materials, blinds' spaces, corners, door openings and slender panels, incorporation of anti-alkali treatment glass fibre mesh should be made over the first layer when still wet of *ISODUR PK FLEX*. This mesh should be suitably embedded in the thickness of the first layer, and so, its application should take place according to the following technical scheme:

- Apply the first layer of *ISODUR PK FLEX*;
- Suitably embed the reinforcing mesh, *ISOVIT REDE 160* in the applied layer, pressing it with the back of the trowel;
- Apply the second layer after the first layer setting time is over but making sure the latter is still fresh.

For applications on unstable substrates or subject to significant hygrothermal variations, such as when using dark-coloured paints (solar absorption coefficient  $\alpha > 0,7$ ), *ISODUR PK FLEX* should also be reinforced with *ISOVIT REDE 160* glass fibre mesh.

# ISODUR PK FLEX

LEVELLING FIBRE-REINFORCED MORTAR WITH FINE SANDED FINISH

Provision should be made for the existence of expansion joints on the coating or fins in large panels. On facades facing the south-west quadrant there should be a special care, with spacing adequate to the normal behavior of the render.

The planned paint scheme should be applied 14 days later, guaranteeing the application conditions required in the data sheet of the paint to be used.

#### d) Restrictions

*ISODUR PK FLEX* should not be applied at room and substrate temperatures below 5 °C and above 30 °C.

In hot and/or dry weather or when substrates are directly exposed to sunlight, the substrate should be previously wetted and application should only be started when it is dry.

Application in the presence of strong winds may cause render cracking. In such case, walls should be protected so as to minimize the effects of wind action.

#### e) Complementary Advices

The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used.

No mortar that has started its setting process should be applied. Do not soften mortars by adding water after preparation.

Do not add any other products to the mortar. *ISODUR PK FLEX* should be applied as it is shown in its original packaging.

## 5. PACKAGING AND VALIDITY

### Packaging

25 kg paper bags in plasticized pallets of 60 bags.

### Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.


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## 6. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and thoroughly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

	<b>ISODUR PK FLEX</b>
	EN 998-1 General purpose (GP) render mortar for indoor and outdoor coatings.  Declaration of performance DOP.11002

*Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.*

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