NEOTEX S.A.
CONSTRUCTION CHEMICALS SINCE 1959
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THESSALONIKI: Ionias Str., GR 57009 Kalochori, Thessaloniki, Greece, Tel.: +30 2310 467275, Fax: +30 2310 463442

# Revinex® Flex 2006

## Two-component cementitious waterproofing system

### Fields of application

**Revinex® Flex 2006** is a brushable, cementitious material, suitable for waterproofing of concrete. It is Ideal for shafts, water tanks, wells, zardinieres, silos, underground rooms, tunnels, walls, as well as surfaces to be covered with tiles.

### Properties

- Offers high elasticity, impermeability and protection to every vertical or horizontal construction surface, that is subjected to vibrations, contractions – expansions or chemical substances
- Remarkable adhesion on numerous substrates, like concrete, cement slurries, bricks, metals, gypsum boards, polysterene, mosaic and ceramic
- Prevents metallic reinforcements corrosion, while enhances adhesion of cement on to the reinforcement
- Resistant at low temperatures and snow/frost melting
- Water vapor-permeable, protects from concrete carbonization
- Resistant to positive and negative hydrostatic pressure
- Economic and easy to apply, even from un-trained personnel
- Bridges cracks, pores and thin joints
- Protects from underground radon and chloride migration
- Environmentally friendly
- Certified with CE (EN 1504-2)

### Technical characteristics

| | |
|---|---|
| **Consumption** | 2-2,5kg/m$^2$ for two layers |
| **Density (EN ISO 2811-1: 12011)** | 1,036g/cm$^3$ |
| **Compressive strength (EN 1015-11/99)** | 14,0Mpa |
| **Flexural strength (EN 1015-11/99)** | 4,1Mpa |

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| **Resistance to penetration (EN 1015-09)** | 18,43N/mm$^2$ |
| **Tensile strength (28 days DIN 53504*)** | 9,61N/mm$^2$ |
| * with fiberglass **Gavazzi® 0059-A** | |
| **Elongation at break (28 days DIN 53504)** | 16,8% |
| **Test on constant pressure water 5bar (28 days)** | No leakage |
| **Water permeability (EN 1062-3:2008)** | 0,0000kg/(m$^2$xh$^{0,5}$) |
| **Adhesion strength (EN 1542)** | 1,44N/mm$^2$ |
| **Absorption coefficient (24 hours) (EN 1062-3:2008)** | 0,00 kg/m$^2$ |
| **Water vapor permeability Λ (EN 7783-1:1999)** | 0,001g/cm$^2$ d$^{-1}$ |
| **Water vapor resistance coefficient μ (EN 7783-1:1999)** | 435,5 |
| **Coefficient Sd (EN 7783-1:1999)** | 2,26m |
| **Permeability $CO_2$(EN 1062-6:2002 Method A)** | 0,5g/(m$^2$ d) |
| **Resistance coefficient μ (EN 1062-6:2002 Method A)** | 10923 |
| **Coefficient Sd (EN 1062-6:2002 Method A)** | 56,80m |
| **Mixing ratio (by weight)** | 70%A-30%B or 2,4:1 |
| **Pot life (+25ºC)** | 30 minutes |
| **Application temperature** | From +5ºC to +35ºC |
| **Drying time of each layer** | 8 - 10 hours |

These times are prolonged by low temperatures and moisture, while shortened by higher ones.

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## Instructions for use

*Surface preparation*: The substrate should be clean, free from dust, greasy or oily substances, poorly adhering material, and should be sufficiently damp. Use high pressure water jet and abrasive blast cleaning equipment, to remove cement laitance and achieve an open textured surface. Iron or wooden elements should be removed or cut to a depth of 3cm. Cavities or other imperfections must be repaired with **Neorep®.** Existing construction joints, non-leaking joints bigger than 0.4 mm wide, are opened lengthwise in a V shape to a depth of about 3 cm and are then filled as above.

In case of oxidized exposed reinforcing elements, start by removing all friable and loose material. Then apply directly onto the rusty metallic surfaces the chemical rust converter **Neodur® Metalforce**, followed by the anti-corrosive cementitious mortar **Ferrorep®**. Finally, cover the repaired reinforcement with the cementitious repairing mortar **Neorep®**.

In the event of seeping water, it is recomended to use the instant-setting cementitious mortar **Neostop®**, prior to the use of **Neorep®**.

*Mixture preparation*: Gradually add the A component (solid) to the B (liquid) and mix with a low-rev stirrer (to avoid air entrapment) until it is homogeneous. Do not add water or other inert materials. If the partial application of the mixture is necessary, follow the mixing ratio of 70%A and 30% B.

*Application*: Apply the mixture using a brush or spatula. When the first coat is dry, apply the second layer working in a direction vertical to the way the first coat was applied. The first coat should be sufficiently damp to ensure good adhesion and bonding with the second one. For thicker coatings and resistance to tearing, (e.g. at upstands, cracks) use fiberglass mesh **Gavazzi® 0059-A**, between the 2 coatings, while the 1st is still wet.

## Notes

- Never apply when rain is forecasted
- Do not apply at temperatures less than 5 $^0$C.
- Allow **Revinex® Flex 2006** to dry between 5 and 8 days, before applying tiles or other coatings
- While applying on vertical surfaces, the ratio of 3:1 (75%A':25%B') can be used
- For concrete structures that hold liquids (e.g. reservoirs, water tanks, etc.), **Revinex® Flex 2006** should be allowed to set for 7 days before filling with liquid.

## Colours

Grey

## Packing

Set: Carton bag 24kg and plastic container 10kg

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| | |
|---|---|
| **Storage stability** | Carton bags: 12 months<br>Plastic containers: 24 months<br>*Note: the above periods are meant for a product kept in the unopened original container, in a dry environment protected from humidity and direct sunlight.* |

The information supplied in this datasheet, concerning the uses and the applications of the product, is based on the experience and knowledge of NEOTEX® SA. It is offered as a service to designers and contractors in order to help them find potential solutions. However, as a supplier, NEOTEX® SA does not control the actual use of the product and therefore cannot be held responsible for the results of its use. As a result of continual technical evolution, it is up to our clients to check with our technical department that this present data sheet has not been modified by a more recent edition.

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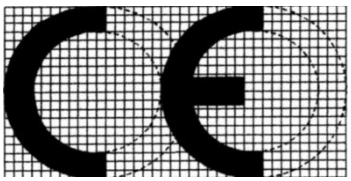

1922

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1922-CPR-0386

Dop No.Revinex® Flex 2006 /4950-02

EN 1504-2

Revinex® Flex 2006

Surface Protection System for Concrete

Coating

| | |
|---|---|
| Water Vapour Permeability | Class I |
| Adhesion Strength | ≥1.0N/mm$^2$ |
| Capillary Absorption | W<0.1Kg/m$^2$h$^{0.5}$ |
| Permeability to $CO_2$ | $S_D$>50m |
| Reaction to Fire | Euroclass F |
| Dangerous Substances | Comply with 5.3 |