NEOTEX S.A.
CONSTRUCTION CHEMICALS SINCE 1959
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ATHENS: V. Moira str., P.O. Box 2315, GR 19600 Industrial Area Mandra, Athens, Greece, Tel.: +30 210 5557579, Fax: +30 210 5558482
THESSALONIKI: Ionias Str., GR 57009 Kalochori, Thessaloniki, Greece, Tel.: +30 2310 467275, Fax: +30 2310 463442

Revinex® Flex 2006

Two-component flexible cementitious waterproofing system, suitable for use in contact with drinking water

Description

Two-component cementitious waterproofing system, ideal for applications which require flexibility.

Suitable for use in contact with drinking water, acc. to the Ref. No. 30/013/000/68/07-01-2021 report issued by the General Chemical State Laboratory of Greece.

Fields of application

- Potable water tanks
- Surfaces under tiles in swimming pools, balconies, terraces, flat roofs, wet rooms (bathrooms, kitchens, etc.)
- Shafts, silos, planter boxes
- Basements and underground walls, internally or externally

Properties - Advantages

- Offers waterproofing and long-term protection to horizontal and vertical construction surfaces
- Increased flexibility – ideal for surfaces that are subjected to contractions-expansions and vibrations
- Remarkable adhesion on numerous types of substrate, such as concrete, cement screeds, bricks, metal, gypsum boards, polysterene, ceramics
- Protects concrete against carbonation and prevents corrosion of steel reinforcement
- Resistant to positive and negative hydrostatic pressure
- Water vapour permeable
- Bridges cracks and seals pores or cavities
- Resistant to sewage water
- Protects from underground radon and chloride migration
- Eco-friendly & user-friendly
- CE certified acc. to EN 1504-2
- Tested and evaluated for its suitability in contact with drinking water by the General Chemical State Laboratory of Greece – Fulfils requirements of Directive (EU) 2020/2184 of the European Parliament and the Council (DWD), for use in contact with drinking water at ambient temperature and for containers with a maximum surface to volume ratio of 0.5 dm^{-1} (container volume >1m^3)

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Technical characteristics

Mixing ratio A:B (by weight)	24:10
Density of mixture	~1,80kg/L
Compressive strength (EN 1015-11)	14MPa
Flexural strength (EN 1015-11)	4,1MPa
Resistance to penetration (52 hours, EN 1015-9)	18,4MPa
Elongation at break (28 days, DIN 53504)	16,8%
Tensile strength (28 days, DIN 53504, reinforced Gavazzi® 0059-A)	9,61MPa
Adhesion strength (EN 1542)	>1N/mm^2
Liquid water permeability (EN 1062-3)	<0,1kg/m^{2}h^{0,5}
CO_2 diffusion - Equivalent air layer thickness S_d (EN 1062-6)	>50m
Water-vapor diffusion - Equivalent air layer thickness S_d (EN ISO 7783)	<5m (Class I – vapour permeable)
Consumption	2-2,5kg/m^2 for two layers

Curing details

Pot life (+20°C, RH 50%)	30 minutes
Drying time (+20°C, RH 50%)	8 - 10 hours (per layer)

**Low temperatures and high humidity during application and/or curing prolong the above times, while high temperatures reduce them*

Instructions for use

Substrate preparation: Cementitious substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance, smooth out irregularities, open the pores and create conditions for optimum adhesion. Loose friable material and weak concrete must be completely removed (e.g. by brushing or by the use of a suitable sander and a high suction vacuum cleaner) and surface defects such as blowholes and voids must be fully exposed

Repairs to the substrate, filling of joints, blowholes/voids and surface leveling must be carried out using appropriate repairing products, such as the non-shrinking fiber-reinforced cementitious repairing mortar

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Neorep® (class R4 acc. to EN 1504-3). Existing construction joints and cracks greater than 0.4mm wide shall be opened longitudinally in V shape at a depth of app. 3cm and then filled as above.

If any oxidized reinforcement is visible, it is recommended to use the rust converter **Neodur® Metalforce** (after removing the loose rust) and then apply the anti-corrosive mortar **Ferrorep®**. These spots shall be also covered later with **Neorep®**.

In spots where there is existing flow of water, **Neostop®** is recommended to be used prior to the application of **Neorep®**.

Prior to the application of **Revinex® Flex 2006**, the substrate must be clean and free of dust, oil, grease, dirt, moss or any poorly adhering material. The surface must be as flat and smooth as possible.

Priming: The concrete surfaces must be saturated thoroughly with water. The application of the waterproofing system shall begin once a saturated surface-dry (SSD) condition is achieved, without any ponding water. Alternatively, it is proposed to prime the surface by roller with the SBR co-polymeric emulsion **Revinex®** diluted with water at a ratio 1:4 w/w.

Mixing - Application: Before the application, the A component (powder) is gradually added to the B component (liquid) at the predetermined ratio (24A :10B w/w) and the mixture is thoroughly stirred with a low-speed electric stirrer until it is homogeneous. The mixture is initially applied in all corners, reinforced with the alkali-resistant fiberglass mesh **Gavazzi® 0059-A** (application of two layers “wet-on-wet” with the mesh embedded between them) and, at the same time, in one layer over the whole horizontal and/or vertical surfaces by brush or smooth trowel.

As soon as the first layer of cementitious waterproofing has hardened and after slightly saturating it with water, the second layer of **Revinex® Flex 2006** is applied in a vertical or different direction than the previous one.

If required, every subsequent layer is applied in the same way. The thickness of each layer should not exceed 1mm of thickness, in order to ensure proper curing of the material. For enhanced tear resistance, it is recommended that the system is thoroughly reinforced with the alkali-resistant fiberglass mesh **Gavazzi® 0059-A**.

After applying the final coat, it is advisable to protect it from the outside weather conditions (direct sunlight, wind, rain and frost) for a time period of 3-5 days.

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Notes	• *Application conditions:* Temperature: +5°C min. / +35°C max. • Do not add water or other inert materials while mixing the two components of the system • The system should not be applied under wet conditions, or if rainy/wet conditions are expected to prevail during the curing period • It is recommended to allow **Revinex® Flex 2006** to cure for 5 to 8 days, before overcoating with tiles or other coatings • In the case of applying tiles on top of **Revinex® Flex 2006**, it is strongly recommended that the tile adhesive has sufficient elasticity (proposed type C2TE S1) • Water tanks should be filled with water after at least 7-10 days (depending on prevailing atmospheric conditions) have passed from the application of the final layer. The water used for the initial filling of the tank should be disposed • When the product is applied on vertical surfaces, the ratio 3A: 1B w/w may be used alternatively to avoid material spills • The system should not be applied on cementitious substrates that are not sufficiently cured
Colour	Grey
Cleaning of tools – Stains removal	Immediately after the application with water**.** Prior to hardening, it may be removed with the aid of solvent **Neotex® 1111** and a piece of wire. In case of hardened stains, only by mechanical means
UFI code	*B component:* VMC0-K0F0-700Y-45ET
Packing	Sets (A+B) of 34kg
Storage stability	*Component A:* 12 months, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation. *Component B***:** 2 years, if kept in the original sealed packaging, protected from frost, humidity and exposure to solar radiation.

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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 and permeability to water	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