

Revinex®

Multi-purpose copolymer emulsion designed to enhance the properties of cement mortars and coatings

Description

Multi-purpose copolymer emulsion designed to enhance the properties of cement mortars and coatings. Offers remarkable impermeability to water, elasticity and adhesion, in a wide variety of building and repairing applications (e.g. cement screeds & mortars, cement-based coatings, joint grouts, plasters, tile adhesives, etc.)

Fields of application

- Cementitious screeds in floors, with increased resistance to abrasion, hydrostatic pressures and chemical attacks
- Plasters of high durability and impermeability to water
- Finishing mortars of small thickness
- Bonding between old and new concrete or cement-based mortars
- Repairing of damaged concrete elements
- Enhancement of properties of cementitious waterproofing coatings (**Neopress®**, **Neopress® Crystal**)
- As an additive in cementitious tile adhesives
- As a primer for water-based waterproofing coatings (e.g. **Neoproof® PU W**, **Neorooft®**, etc.) and paints (e.g. **Neotherm® AC**), as well as cementitious waterproofing systems (e.g. **Revinex® Flex System**)



Packing

200kg, 18kg, 5kg
and 1kg

Properties - Advantages

- Offers impermeability to water, excellent adhesion on various substrates, as well as elasticity
- Enhances the abrasion resistance and prevents dust generation
- Prevents the formation of capillary cracks, caused by shrinkage and contractions-expansions
- Raises the flexural and tensile strength, and offers increased resistance to frost
- Improves the chemical resistance of mortars against grease, oil, dilute acids
- Resistant to alkali environment and freeze/thaw cycles
- Facilitates the creation of very thin layers
- Reduces the mixing water, without compromising the mixture's workability
- Increases the hardness of the surface
- Complies with REACH requirements – APEO-free
- High solids content of 47%, with no added heavy aggregates or thickening agents

Technical characteristics

Density (EN ISO 2811-1)	1,04kg/L ($\pm 0,03$)
Solids content (ISO 1625)	47% ($\pm 1\%$)
pH (ISO 1148)	9-11
Viscosity (ISO 1652)	30-150mPa·s
Improvement of the compressive strength of plastering mortar with the addition of Revinox [®] 6% w/w of cement (28 days, EN 1015-11)	$\geq 70\%$

Instructions for use

Substrate preparation

Before applying any mortar enriched with **Revinox**[®], it is essential to ensure that the substrate is stable and of sufficient mechanical strength, clean and free of dust, oil, grease, dirt, old paints and loose materials. Cementitious substrates are recommended to be wetted with water, to achieve a saturated surface-dry (SSD) condition, without any ponding water.

Mixing

Revinox[®] is mixed with water at the recommended ratio, depending on the type of application. The solid components (e.g. cement, sand) are mixed respectively. The mixing is preferably done with a mechanical mixer, in which case the liquid components (**Revinox**[®] - water) are stirred first and then the solids are added in the required amount and stirred, until a homogeneous mixture is created, with the desired workability.

Application

The mixture is then applied by trowel, spatula, brush or roller, depending on the type of application.

Indicative applications and proportions

Application	Proportion	Fields of application
Plasters (cement, sand, Revinex [®] , lime, water, fiberglass mesh Gavazzi [®])	1-3kg Revinex [®] / 50kg cement or 5-10% w/w of cement in case of finishing plaster	Plasters of high durability and impermeability to water
Cement mortars & screeds (cement, sand, Revinex [®] , water)	3-10kg Revinex [®] / 50kg cement	Creation of slopes, smoothing and leveling, coving, grouting, tiling, etc.
Bonding slurry (cement, sand, Revinex [®] , water)	1 part of cement: 1 part of sand (0-2mm): 0,5-1 part of Revinex [®] + water (as much as needed)	Bonding between old and new concrete or cement-based mortars
Brushable cementitious waterproofing systems (Neopress [®] or Neopress [®] Crystal, Revinex [®] , water)	3-5kg Revinex [®] / 25kg Neopress [®] or Neopress [®] Crystal	Waterproofing of basements, walls, tanks, swimming pools, etc. with increased resistance to hydrostatic pressure
Cementitious repairing mortars (Neorep [®] , Revinex [®] , water)	1-2kg Revinex [®] / 25kg Neorep [®]	Repairs of worn or damaged parts of concrete elements
Industrial floors (cement, sand, gravel, Revinex [®] , water, PP fibers)	5-10kg Revinex [®] / 50kg cement	Floors of high mechanical and chemical resistance, e.g. in parking and car service garages, laboratories
Tile adhesives (adhesive, Revinex [®] , water)	1-2kg Revinex [®] / 25kg tile adhesive	Fixing tiles, especially in areas with increased humidity
Primer for water-based waterproofing coatings and paints (Revinex [®] , water)	1 part of Revinex [®] : 3-4 parts of water Consumption of Revinex [®] : 40-50gr/m ² in one layer as a primer on cementitious surface (diluted with water 1:4)	Adhesion improvement of water-based waterproofing coatings (e.g. Neorooft [®]) and paints, as well as cementitious waterproofing systems (e.g. Revinex [®] Flex System)

** For potential other uses of **Revinex**[®], please consult the Technical Department of **NEOTEX**[®]*

Special notes

- The optimum proportions of cement, sand and **Revinex**[®] depend on the substrate, the type of application and the required properties
- To achieve the best possible results, special attention should be paid to the other components that will be mixed with **Revinex**[®]: cement, sand, other admixtures. Cement must be fresh, cool and without any lumps. In cement mortars, the sand must be well washed, sharp, free of soil and salts. For the compatibility with other admixtures, please consult the Technical Department of **NEOTEX**[®].

Appearance	Milky liquid
Packing	18kg, 5kg and 1kg in metal cans 200kg in drums
Cleaning of tools – Stains removal	By water immediately after application. In case of hardened stains, by mechanical means
Volatile organic compounds (V.O.C.)	V.O.C. limit acc. to the E.U. Directive 2004/42/CE for this product of category AhWB: 30g/l (Limit 1.1.2010) - V.O.C. content of the ready-to-use product <30g/l
UFI code	3EC0-K026-M00Y-TG8P
Storage stability	18 months, stored in its original sealed packing, protected from frost, humidity and exposure to 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 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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