

## 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.)

Qualified for use in **LEED** projects globally regarding its use as a primer, by showing compliance with the specifications for VOC content (<1g/l) and VOC emissions, achieving the highest classification in terms of TVOC emissions (<0,5mg/m<sup>3</sup>).

Classified in the highest emission class **A+** with respect to VOC emissions, regarding its use as a primer in interior areas.



### 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

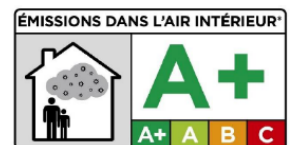
200kg, 18kg, 5kg  
and 1kg

## 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
- Contributes to the optimization of indoor air quality: **A+** as a primer acc. to the French legislation requirements
- Complies with the strict VOC requirements for sustainable buildings, according to **LEED** guidelines
- High solids content of 47%, with no added heavy aggregates or thickening agents

## Certificates - Test reports

- Qualified for use in LEED projects globally regarding its use as a primer, by showing compliance with the specifications for VOC emissions and VOC content, as attested by the external independent specialized laboratory of Eurofins - Fulfils the requirement LEED v4 & v4.1 (beta): EQ Credit - Low-Emitting Materials, achieving the highest classification in terms of TVOC emissions ( $<0,5\text{mg}/\text{m}^3$ ), combined with VOC content  $<1\text{g}/\text{l}$ 
  - *Attestation LEED v4 and v4.1 (beta): EQ Credit - Low-Emitting Materials*
  - *VOC Emission Test report No. 392-2024-00234602 – Regulation: CDPH (California Department of Public Health) v.1.2-2017*
  - *VOC Content Test report No. 392-2024-00234605 – Regulation: SCAQMD (South Coast Air Quality Management District) Rule 1113 (2016)*
- Certification of compliance with the French regulation regarding indoor VOC emissions - Classified in the highest emission class A+
  - *Attestation French VOC Regulation: VOC emission class A+*
  - *VOC Emission Test report No. 392-2024-00234602 – French VOC Regulation: Decree of March 2011 and Arrête of April 2011 and French CMR components: Regulation of April and May 2009*
- Complies with the V.O.C. content requirements acc. to the E.U. Directive 2004/42/CE



### Technical characteristics

Density (EN ISO 2811-1)	1,04kg/L (±0,03)
Solids content (ISO 1625)	47% (±1%)
pH (ISO 1148)	9-11
Viscosity (ISO 1652)	30-150mPa·s
Improvement of the compressive strength of plastering mortar with the addition of <b>Revinex</b> ® 6% w/w of cement (28 days, EN 1015-11)	≥70%

### Instructions for use

#### **Substrate preparation**

Before applying any mortar enriched with **Revinex**®, 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**

**Revinex**® 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 (**Revinex**® - 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, <b>Revinex</b> ®, lime, water, fiberglass <b>N-Thermon</b> ® Mesh)	1-3kg <b>Revinex</b> ® / 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, <b>Revinex</b> ®, water)	3-10kg <b>Revinex</b> ® / 50kg cement	Creation of slopes, smoothing and leveling, coving, grouting, tiling, etc.
Bonding slurry (cement, sand, <b>Revinex</b> ®, water)	1 part of cement: 1 part of sand (0-2mm): 0,5-1 part of <b>Revinex</b> ® + water (as much as needed)	Bonding between old and new concrete or cement-based mortars
Brushable cementitious waterproofing systems ( <b>Neopress</b> ® or <b>Neopress</b> ® Crystal, <b>Revinex</b> ®, water)	3-5kg <b>Revinex</b> ® / 25kg <b>Neopress</b> ® or <b>Neopress</b> ® Crystal	Waterproofing of basements, walls, tanks, swimming pools, etc. with increased resistance to hydrostatic pressure

Cementitious repairing mortars ( <b>Neorep</b> <sup>®</sup> , <b>Revinex</b> <sup>®</sup> , water)	1-2kg <b>Revinex</b> <sup>®</sup> / 25kg <b>Neorep</b> <sup>®</sup>	Repairs of worn or damaged parts of concrete elements
Industrial floors (cement, sand, gravel, <b>Revinex</b> <sup>®</sup> , water, PP fibers)	5-10kg <b>Revinex</b> <sup>®</sup> / 50kg cement	Floors of high mechanical and chemical resistance, e.g. in parking and car service garages, laboratories
Tile adhesives (adhesive, <b>Revinex</b> <sup>®</sup> , water)	1-2kg <b>Revinex</b> <sup>®</sup> / 25kg tile adhesive	Fixing tiles, especially in areas with increased humidity
Primer for water-based waterproofing coatings and paints ( <b>Revinex</b> <sup>®</sup> , water)	1 part of <b>Revinex</b> <sup>®</sup> : 3-4 parts of water Consumption of <b>Revinex</b> <sup>®</sup> : 40-50gr/m <sup>2</sup> in one layer as a primer on cementitious surface (diluted with water 1:4)	Adhesion improvement of water-based waterproofing coatings (e.g. <b>Neorooft</b> <sup>®</sup> ) and paints, as well as cementitious waterproofing systems (e.g. <b>Revinex</b> <sup>®</sup> <b>Flex System</b> )

\* For potential other uses of **Revinex**<sup>®</sup>, please consult the Technical Department of **NEOTEX**<sup>®</sup>

## Special notes

- The optimum proportions of cement, sand and **Revinex**<sup>®</sup> 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**<sup>®</sup>: 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**<sup>®</sup>.

<b>Appearance</b>	Milky liquid
<b>Packing</b>	18kg, 5kg and 1kg in metal cans 200kg in drums
<b>Cleaning of tools – Stains removal</b>	By water immediately after application. In case of hardened stains, by mechanical means
<b>Volatile organic compounds (V.O.C.)</b>	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
<b>UFI code</b>	3ECO-K026-M00Y-TG8P
<b>Storage stability</b>	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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