

# Revinex<sup>®</sup> Flex System

## Cementitious Waterproofing System

### Applications

Multi-purpose, cementitious waterproofing system suitable for concrete, masonry, under tiles and other construction surfaces. By mixing both components of the system, **Revinex<sup>®</sup> Flex** (component A) with water or the suitable polymer (component B) can be used for different waterproofing applications depending on the specific project requirements.

### Versions

#### One component system

- **Mixing ratio Revinex Flex + water = 25:7**

**Fields of application:** Ideal waterproofing for basements, walls, shafts, etc. Interior waterproofing against light negative pressure water, of walls and floors in basements. Waterproofing and protection of exterior walls to be embanked into the ground.

**Properties:** Efficient, economical waterproofing in new and existing structures. Easy application by simple mixing with water. Resistance to positive and negative hydrostatic water pressure.

#### Two component systems

- **Mixing ratio Revinex Flex + Revinex Flex FP = 25:7**

**Fields of application:** Waterproofing system for basements, walls, shafts, tanks (non potable water) or generally when increased adhesion properties are required. Interior waterproofing against light negative pressure water, of walls and floors in basements. Waterproofing in wet rooms (e.g. bathrooms, kitchens etc) behind the tiles. Waterproofing and protection of exterior walls to be embanked into the ground.

**Properties:** Crack bridging properties. Excellent adhesion on almost all substrates, such as concrete, stone, ceramics and bricks. Resistance to positive and negative hydrostatic water pressure.

- **Mixing ratio Revinex Flex + Revinex Flex U360 = 25:10**

**Fields of application:** Flexible waterproofing system for terraces, balconies, swimming pools, wet areas (bathrooms, kitchens, etc.), before applying ceramic tiles.

**Properties:** Crack bridging properties. Excellent adhesion

The systems are certified in compliance with EN 1504-2.

Fulfills the requirements of DIN 1048-5 and EN 12390-8.

Provides waterproofing against hydrostatic pressure of 7 bar.

## Revinex<sup>®</sup> Flex System

on almost all substrates, such as concrete, stone, ceramics and bricks.

- **Mixing ratio Revinex Flex + Revinex Flex ES = 25:12**

**Fields of application:** Suitable for demanding waterproofing applications with high elasticity on terraces, balconies under tiles and exposed surfaces such as flat roofs, exterior walls etc.

**Properties:** Unaffected by UV radiation. Crack bridging properties. Excellent adhesion on almost all substrates, such as concrete, stone, ceramics and bricks.

### Technical Characteristics

#### One component system Revinex Flex (25kg)+ Water (7kg)

Density -bulk density of dry	1,31 kg/l
Density -Revinex Flex+water	1,55 kg/l
Consumption	2-2,5 kg/m <sup>2</sup> for two coats (cementitious surface)
Water permeability (EN 1062-3:2008)	<0,1 kg/m <sup>2</sup> h <sup>0,5</sup>
Permeability CO <sub>2</sub> (EN 1062-6:2002 Method A)	S <sub>D</sub> =57m
Water-vapor transmission rate (ISO 7783:1999)	V=59,4 g/(m <sup>2</sup> ·d)
Water-vapor diffusion-equivalent air layer thickness (ISO 7783-1:1999)	S <sub>D</sub> =0,3m
Water-vapor resistance factor (ISO 7783-1:1999)	μ=177
Bonding strength (DIN EN 1348)	1,6 N/mm <sup>2</sup>
Compressive strength (EN 1015-11:2004/A1:2007)	15,82 N/mm <sup>2</sup>
Flexural strength (EN 1015-11:2004/A1:2007)	5,87 N/mm <sup>2</sup>
Time of workability (25°C) *	30 minutes
Drying time per layer (20°C)	8-10 hours

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

## Revinex<sup>®</sup> Flex System

### Two component system Revinex Flex (25kg)+ FP (7kg)

Density (EN ISO 2811-1:2011)	1,515 kg/l
Consumption	2-2,5 kg/m <sup>2</sup> for two coats (cementitious surface)
Bonding strength (EN 1542:2001)	1,52 N/mm <sup>2</sup>
Water permeability (EN 1062-3:2008)	0,03 kg/m <sup>2</sup> h <sup>0,5</sup>
Permeability CO <sub>2</sub> (EN 1062-6:2002 Method A)	S <sub>D</sub> =91m
Water-vapor transmission rate (ISO 7783-1:1999)	V=401,5 g/(m <sup>2</sup> ·d)
Water-vapor diffusion-equivalent air layer thickness (ISO 7783-1:1999)	S <sub>D</sub> =0,1m
Water-vapor resistance factor (ISO 7783-1:1999)	μ=35
Compressive strength (EN 1015-11:2004/A1:2007)	17,02 N/mm <sup>2</sup>
Flexural strength (EN 1015-11:2004/A1:2007)	9,20 N/mm <sup>2</sup>
Time of workability (25°C) *	30 minutes
Drying time per layer (20°C)	8-10 hours
Minimum application temperature	+5 °C

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

## Revinex<sup>®</sup> Flex System

### Two component system Revinex Flex (25kg) + U 360 (10kg)

Density (EN ISO 2811-1:12011)	1,57 kg/l
Consumption	2-2,5 kg/m <sup>2</sup> for two coats (cementitious surface)
Bonding strength (EN 1542:2001)	1,35 N/mm <sup>2</sup>
Water permeability (EN 1062-3:2008)	<0,1 kg/m <sup>2</sup> h <sup>0,5</sup>
Permeability CO <sub>2</sub> (EN 1062-6:2002 Method A)	S <sub>D</sub> =61m
Hardness Shore A (EN ISO 868:2003/ASTM 2240)	71
Water-vapor transmission rate (ISO 7783-1:1999)	V=127,4 g/(m <sup>2</sup> ·d)
Water-vapor diffusion-equivalent air layer thickness (ISO 7783-1:1999)	S <sub>D</sub> =0,2m
Water-vapor resistance factor (ISO 7783-1:1999)	μ=381
Maximum Load (EN ISO 527-1/EN ISO 527-2)	5,58 ± 0,40N
Tensile Strain at Maximum Load (EN ISO 527-1/EN ISO 527-2)	10,86 ± 1,31%
Tensile Strain at Break (EN ISO 527-1/EN ISO 527-2)	25,72 ± 4,12%
Young's Modulus (EN ISO 527-1/EN ISO 527-2)	11,56 ± 1,53MPa
Time of workability (25°C) *	30 minutes
Drying time per layer (20°C)	8-10 hours
Minimum application temperature	+5 °C

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

## Revinex<sup>®</sup> Flex System

### Two component system Revinex Flex (25kg) + ES (12kg)

Density (EN ISO 2811-1:12011)	1,505 kg/l
Consumption	2-2,5 kg/m <sup>2</sup> for two coats (cementitious surface)
Hardness Shore A (EN ISO 868:2003/ASTM 2240)	68
Bonding strength (EN 1542:2001)	1,61 N/mm <sup>2</sup>
Water permeability (EN 1062-3:2008)	0,02 kg/m <sup>2</sup> h <sup>0,5</sup>
Permeability CO <sub>2</sub> (EN 1062-6:2002 Method A)	S <sub>D</sub> =82m
Water-vapor transmission rate (ISO 7783-1:1999)	V=228,5 g/(m <sup>2</sup> ·d)
Water-vapor diffusion-equivalent air layer thickness (ISO 7783-1:1999)	S <sub>D</sub> =0,1m
Water-vapor resistance factor (ISO 7783-1:1999)	μ=95
Maximum Load (EN ISO 527-1/EN ISO 527-2)	10,95 ± 0,35 N
Tensile Strain at Maximum Load (EN ISO 527-1/EN ISO 527-2)	22,18 ± 2,42 %
Tensile Strain at Break (EN ISO 527-1/EN ISO 527-2)	56,30 ± 5,74%
Young's Modulus (EN ISO 527-1/EN ISO 527-2)	12,19 ± 0,93MPa
Time of workability (25°C) *	30 minutes
Drying time per layer (20°C)	8-10 hours
Minimum application temperature	+5 °C

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

## Revinex<sup>®</sup> Flex System

### Instruction for use

**Surface preparation:** Surfaces must be dry, clean from dust, dirt, greasy substances and homogeneous. Cavities or other imperfections must be repaired with **Neorep<sup>®</sup>** and **Revinex<sup>®</sup>**. Non-porous surfaces must be dry, while porous should be wet (until saturation), or preferably be primed with a mixture of **Revinex<sup>®</sup>** + water (ratio 1:3), removing the excess water before application.

**Mixture preparation-Application:** Add gradually component A (powder) to the liquid component B and mix using a low-rev stirrer to avoid air being dragged into the mix. Keep stirring until a perfectly homogenous mix is obtained. Apply the mixture without delay by brush, roller, spatula, preferably in 2 layers of 1 to 1,5mm thickness each. For thicker coatings and resistance to tearing use fiberglass mesh **N-Thermon<sup>®</sup> Mesh 90gr** (for the system Revinex Flex + water or for the system Revinex Flex + Revinex Flex FP) or **Gavazzi<sup>®</sup> 0059-A** (for the system Revinex Flex + Revinex Flex U360 or for the system Revinex Flex + Revinex Flex ES), between the 2 coatings, while the 1st is still wet.

### Notes

- Low temperature and humidity conditions during the application increases drying time and high temperature decrease it.
- Never apply when rain is forecasted.
- Allow **Revinex<sup>®</sup> Flex** to dry between 5 and 8 days, before applying tiles or other coatings (plaster).

### Cleaning of tools

Clean all tools and application equipment with water immediately after use. Hardened material can only be mechanically removed.

### Stain removal

Use water when the stain is still fresh and damp. Otherwise, mechanical means are required for stain removal.

### Color

Grey, White

### Shelf life

2 years, sealed in its original packing, protected from frost and direct exposure to sun, between +5°C and +35°C.

### Packing

Revinex Flex: 25 kg carton bags (Component A)

Revinex Flex FP: 7kg, plastic container (Component B)

Revinex Flex U 360: 10kg, plastic container (Component B)

Revinex Flex ES: 12kg, plastic container (Component B)