

S&P Tecnoimper-FLEX

Flexible waterproof coating



A Simpson Strong-Tie® Company

The information in this technical data sheet is valid for the S&P range of products, systems and solutions.
Please note that the information in your country may vary. Visit sp-reinforcement.eu to find your local branch.

DESCRIPTION

S&P Tecnoimper-FLEX is a two component waterproof and flexible coating, based on special cements, selected aggregates, additives and emulsified synthetic resins. Once mixed and applied onto concrete substrates, cementitious mortars, etc, it provides waterproof features and allows for small movements due to the flexible properties. The simplicity for its application, due to no limitation regarding ambient temperatures, installation onto wet substrates, and easy application, make this product highly suitable for construction works where leakage and/or chemical attack problems are present.

GENERAL FEATURES

WHERE TO USE

- Inner waterproofing of potable water tanks
- Waterproofing of sewage water plant tanks and desalination water tanks
- Tunnels, channels, ducts, basements and foundations
- Protection of structural concrete against carbonation and corrosion caused by chloride attack
- Waterproofing of roofs, elevator shafts and pits

PERFORMANCE FEATURES

- Can be used in potable water areas
- Good resistance to wastewater, chlorides and sulphates
- Allows substrate to transpire, avoiding the risk of condensation
- Protection against carbonation
- Very low chloride penetration
- Resistant to freezing/thawing cycles, seawaters and aggressive environments
- Weatherproof
- 100 % waterproof
- UV-resistant

PRODUCT DATA

Generic description

S&P Tecnoimper-FLEX

Size

Comp. A - 20 kg bag

Comp. B - 8.4 kg bottle

Storage

12 months in original unopened sealed bags/bottles in a dry and cool place



This product conforms to EN 1504-2.

MECHANICAL PROPERTIES

S&P Tecnoimper-FLEX Flexible waterproof coating	
Consumption	2-3 kg/m ²
Sub-pressure resistance	5 kg/cm ²
Liquid water permeability (EN 1062-3)	W = 0.01 kg/m ² .h ^{0.5}
Bond strength (EN 1542)	> 1.1 N/mm ² (28 days)
Permeability to CO ₂ (EN 1062-3)	i = 2.6 g/m ² *d & S _D = 96 m
Sulphate resistance	High
Water vapour permeability	Class I = Permeable V = 7.6 g/m ² *d S _D = 2.7 m
Max. service temperature	165 °C
Application temperature	> 4 °C
Chloride penetration	Very low
Crack resistance (EN 1062-7)	-10 °C: Class A4 (> 1250 µm) +23 °C: Class A4 (> 1250 µm)

Tests carried out at +20 °C and 65 % RH

APPLICATION

Substrate preparation:

Mechanically abrade concrete surface to completely remove debris and loose particles. Wet the surface until complete saturation is achieved and allow standing water to either evaporate or be absorbed into the substrate. Alternatively, remove standing water using a sponge. Honeycombs and cracks must be repaired before applying the product. Uneven surfaces must also be levelled prior to installation, for example using S&P Tecnogrout-FIB or S&P Tecnogrout-K.

Mixing:

Mix component A (20 kg) with component B (8.4 kg) until completely lump-free, ensuring that a homogenous mix is achieved.

Application:

Apply the mix by means of brush or trowel in only one direction. Then apply a second coat at a 90 degree angle to the first coat, not retouching it when finishing. Wait at least 5 hours between each coat. Alternatively, the product may be projected using adequate equipment, finishing the coats with a brush or trowel.

Curing:

Should there be a risk of rapid hydration, the surface must be kept wet by means of watering.

Do not apply this product at ambient temperatures below +5 °C or above +38 °C.

TESTING

Please contact us if you require any information regarding tests that have been conducted. Test reports may be available.

CLEANING

Tools cleaning

Tools and application equipment must be washed immediately after use. If the product hardens, it can only be removed by mechanical means.

CE-MARKING

S&P Tecnoimper-FLEX meets the requirements of EN 1504: "Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 2: Surface protection systems for concrete".

HEALTH & SAFETY

Important safety instructions

For detailed safety information, we recommend that you see the current safety data sheet which is available on www.sp-reinforcement.eu or you can contact us on +41 41 825 00 70.

S&P's range of products are for industrial use. They must be installed by specialised personnel and competent professionals with adequate training. The installation instructions must be followed and can be found in S&P application manuals and several "Guideline" documents / existing technical notes.

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The information and data in this technical data sheet serve to ensure the normal intended use and normal application suitability; the information and data are based on our knowledge and experience. They do not absolve the user from their own responsibility to check the suitability and application method.

The rights to make changes to product specifications are reserved. Furthermore, our general sales and delivery terms apply. The current, most recent product data sheet is valid, and should be requested from us.

Head Office

S&P Clever Reinforcement Company AG
Seewernstrasse 127
CH-6423 Seewen
Phone: +41 41 825 00 70
Fax: +41 41 825 00 75
Web: www.sp-reinforcement.ch
E-Mail: info@sp-reinforcement.ch