

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](http://sp-reinforcement.eu) to find your local branch.

## DESCRIPTION

S&P Tecnopint is a mono-component water dispersion paint based on acrylic resins, elastic and waterproof, suitable for the protection and restoration of concrete and mortars. S&P Tecnopint is particularly useful for weatherproofing and to protect against ultraviolet rays, as well as against acids and alkalis. It forms a waterproof barrier to ions, gases, salts, contaminated waters, frosts, etc, preventing the concrete carbonation process and subsequent attack on reinforcing bars. The film on the substrate is permeable to water vapour, allowing concrete transpiration. The high resistance to CO<sub>2</sub> diffusion decreases the carbonation speed. It also has migratory properties, meaning the active components migrate towards the reinforcing bars to protect them.

## WHERE TO USE

- Bridges and concrete tanks
- Protection of structures in aggressive environments
- Protection of restored concrete structures
- Balconies, garages, etc.
- Prefabricated concrete elements (beams, pillars, columns)
- Superficial concrete refurbishment
- Fireproof protection

## PERFORMANCE FEATURES

- Carbonation resistant
- Available in various colours
- Easy to apply
- UV-resistant
- Weatherproof

### GENERAL FEATURES

## PRODUCT DATA

### Generic description

S&P Tecnopint

### Size

25 kg containers

### Binder

Acrylic primer

### Colour

Grey, White and others

### Finish

Gloss

### Storage

12 months in original unopened sealed containers in a dry and cool place



This product conforms to EN 1504-2:2004

Principles and methods according to EN 1504-9: 2008

Principle 1: Protection against Ingress (PI) - Method 1.3: Coating (C)

Principle 2: Moisture Control (MC) - Method 2.3: Coating (C)

Principle 8: Increase Concrete Resistivity (IR) - Method 8.3: Coating (C)



MECHANICAL PROPERTIES

Property	Test method	Minimum requirement according to EN 1504-2	Value
Density	EN 12190	-	~ 1.55 kg/cm <sup>3</sup>
Viscosity (at 21 °C)	-	-	~ 3 500 mPa*s
Solid content			62 - 68 %
Consumption	-	-	0.45 - 0.50 kg/m <sup>2</sup> (two coats)
Waiting time between coats (at 21 °C)	-	-	≥ 2 h (dry)
Application temperature	-	-	5 °C to 35 °C
Liquid water permeability	EN 1062-3	w < 0.1 kg/m <sup>2</sup> *h <sup>0.5</sup>	w < 0.1 kg/m <sup>2</sup> *h <sup>0.5</sup>
Adhesion to concrete	EN 1542	≥ 1.0 N/mm <sup>2</sup> (Rigid systems, no traffic loads)	> 1.5 N/mm <sup>2</sup> (28 days)
Permeability to CO <sub>2</sub>	EN 1062-6	S <sub>D</sub> > 50 m	S <sub>D</sub> > 70 m
Water vapour permeability (at 23 °C)	EN ISO 7783	Class I (permeable to water vapour): S <sub>D</sub> < 5 m	S <sub>D</sub> < 0.50 m Class I (permeable to water vapour)
Cracking resistance	EN 1062-7	Class A1 > 100 µm Class A2 > 250 µm Class A3 > 500 µm	Class A3 > 500 µm
Cracking resistance after 1000 hours of UV radiation and humidity cycles	EN 1062-7 + EN 1062-11	Class A4 > 1250 µm Class A5 > 2500 µm	Class A3 > 500 µm No blistering, No cracking, No peeling"
Resistance to carbonatation	EN 13295	-	d <sub>k</sub> < reference concrete

Tests were carried out at +21°C ± 2°C and 60 % ± 10 % RH, unless other conditions are required by the specific test standard.

APPLICATION

### Substrate preparation:

It is essential that the substrate is free of grease, dust, remains of paint, formwork release agents, etc, and is strongly recommended to make a complete previous washing out by means of pressurised water-air, sandblasting or adequate solvents.

### Application:

S&P Tecnopint is supplied as a paste and it is required to stir the product prior to use and to achieve a homogeneous colour. Two or three coats will be required depending on the application method and substrate absorption. For the subsequent coats, and in case ambient temperatures are too low or too high, the viscosity can be adjusted, adding 4-5% of water, stirring the mix with a suitable mixer attachment and electric drill.

S&P Tecnopint must not be applied under the following conditions: in rainy weather, when ambient temperature is below the dew point, in case of strong winds, when ambient temperature is below + 5 °C or above +35 °C, on wet surfaces or if air relative humidity is higher than 80%.

Additionally, it must not be applied on metallic substrates not previously treated, or in cases where the temperature is below +5 °C. S&P Tecnopint can be applied by means of brush, roller or in case of large application surfaces, with air-less equipment.

### Consumption:

Consumption can vary depending on the substrate condition (roughness) and on the application method (brush, roller or air-less). Nevertheless, average consumption can be expected to be approximately 250 g/m<sup>2</sup> (first coat) and approximately 200 g/m<sup>2</sup> for the subsequent coats.

### 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 Tecnopint 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](http://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.

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