

<b>Stalats AB</b> <b>P.O. Box 885</b> <b>S-101 37 Stockholm</b>	<b>SPEKTRIN PLUS</b>  <b>Surface Treatment</b>	<a href="http://www.stalats.com">www.stalats.com</a>
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### Product Description

**SPEKTRIN PLUS** is a superior clear **penetrating** sealer that binds loose friable and porous mineral substrates. Penetrates 3-5 mm and consolidates, hardens and dust-binds. Increases compression strength of the concrete by as much as 25%, and abrasion resistance about 2.5 times why virtually all abrasion dust is eliminated 100%. Easy and cost effective to apply. Zero-VOC, non-flammable, and safe to use.

The treatment is permanent and protects the under-lying substrate from detergents, motor oil, petrol, transmission fluid, solvents, de-icing chemicals and other common chemicals. Increasing the resistance to dirt why it makes cleaning easy.

The very good S<sub>d</sub>-Value ensures optimum water vapour permeability why excess moisture can evaporate. Manufactured from a high-class organosilicon modified with 100% polymer resin in combination with a special surfactant for high penetration. The product has a **CE-Marking**.

### Typical Applications

Excellent in a wide range of commercial, industrial, agricultural and residential applications. On floors as well as on walls. Including airports, balconies, basements, bridges, car parks, car washes, concrete bridges, driveways, harbour, parking decks, tunnels and other high traffic areas such as factory floors, storage/distribution areas, warehouses, workshops, etc.

As a high quality clear coating which provides superior performance on mineral substrates as concrete, plaster, etc. Also on former lime paints as it converts the surface into a natural hard ceramic-like coating (silicon dioxide). After the reaction it cannot peel or flake from substrate.

As an impregnator whose prime purpose is to provide dust-proofing, resistance to abrasion and freeze-thaw cycles on concrete. Or to provide a "key" surface for further treatment as adhesion is remarkable increased. *For use both indoors and out.*

### Technical Characteristics

<b>Type:</b>	Organosilicon modified with 100% resin polymer and surfactant.	
<b>Gloss Level:</b>	>10° (Satin or Egg-Shell).	
<b>Effect:</b>	Consolidation and water repellent.	
<b>Cure mechanism:</b>	Silification.	
<b>Spreading rate:</b>	Normally 6-8 m <sup>2</sup> /litre. On power-floated surface 10-12 m <sup>2</sup> /litre.	
<b>Solids:</b>	16%.	
<b>pH-Value:</b>	Approx. 10.	
<b>Density:</b>	1.19 g/cm <sup>3</sup> .	
<b>Colours:</b>	Milky white (clear when dry).	
<b>Performance temperature limitations:</b>	Between -40° and +90°C.	

<b>Properties:</b>	Adhesion strength:	≥ 2 MPa (against concrete).	
	Water Absorption:	Without Sealer	500 g/m <sup>2</sup> /h <sup>0.5</sup>
		Sealer	100 g/m <sup>2</sup> /h <sup>0.5</sup>
	Water Vapour	Resistance factor	μH <sub>2</sub> O 100
Diffusion:	Air layer	S <sub>d</sub> H <sub>2</sub> O 0.01 m (50 μm)	

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### Application Instructions

Substrates should be firm, free from laitance and clean. The surface must not be coated with any sealer or paint as product should be used on bare mineral substrates only. The surface should be vacuum cleaned followed by thoroughly cleaning with an alkaline cleaner as liquid soap (pH 10). Rinse and allow the surface to dry.

Apply wet-in-wet in a continuous film. Calculate with 10-150 ml per m<sup>2</sup>. Allow to soak in for 10 minutes and then brush 10-15 minutes to break surface tension and help product to better penetrate. Keep wet without any dry areas, and avoid puddles. Followed by a light misting with water, rescrub and squeegee off excess materials from the surface. The entire densification process takes 30-45 minutes.

If the concrete is very porous, or the original concrete mix appears like it was short of cement (high in sand), another application may be required after 12 hours.

Accepts pedestrian floor traffic after 12 hours and light vehicles after 72 hours. One effect of the treatment is that smooth concrete after some months will get a soft gloss (shine) as satin. Which process can be accelerated by honing or polishing.

For detailed instructions, see **Treatment of Concrete Floors with Reactive Sealers**. *Note: Product is **corrosive** (pH 10). Protect glass and metal surfaces to avoid etching. Pay attention that during application treated surface becomes temporary slippery.*

### Application

**temperature:** Above 5°C. Never apply when rain is imminent.

**Possible to paint-over:** Yes.

**Tack-free time:** 1-2 hours (at 20°C and 50% R.H.).

**Clean-up:** Water. Mechanically when dried.

**Packages:** Plastic jerry can 25 litres, barrels 200l, IBC containers 1000l.

**Storage:** 12 months. To prevent curing of the unused portion of an opened packaging, reseal tightly. Should be stored between 5° and 25°C. Protect from freezing.

### Health and Safety

**Toxicity:** Product is corrosive when wet. Irritates eyes and skin. Harmful if swallowed. Keep out of reach of children.

**Fire Hazard:** Product is waterborne and presents no fire hazard.

**Waste Disposal:** Must be in compliance with all existing local and state regulations.

The information contained here is to the best of our knowledge, but since the circumstances and conditions in which it may be used are beyond our control, we do not accept liability for any loss or damage. Our only obligation shall be to replace or pay for any material proved defective.