

<b>Stalats AB</b>	<b>SPEKTRIN LITHIUM</b>	<a href="http://www.stalats.com">www.stalats.com</a>
<b>P.O.Box 885</b>	<b>Liquid hardener</b>	<a href="mailto:info@stalats.com">info@stalats.com</a>
<b>S-101 37 Stockholm</b>	<b>Surface Treatment</b>	<b>Page ~ 1 ~of 2</b>

### Product Description

SPEKTRIN LITHIUM is a clear **penetrating** hardener that binds loose friable and porous mineral substrates. Penetrates 4-6 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%.

Will not trigger or contribute to surface ASR (Alkali Silica Reaction). Easy and cost effective to apply. Zero-VOC, non-flammable, no odour, 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.

### 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 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. *For use both indoors and out.*

### Technical Characteristics

<b>Type:</b>	Lithium silicate.		
<b>Gloss Level:</b>	10° (Mat).		
<b>Effect:</b>	Consolidation and water repellent.		
<b>Cure mechanism:</b>	Silicatization.		
<b>Spreading rate:</b>	Normally 5-7 m <sup>2</sup> /litre. On power-floated surface 10-15 m <sup>2</sup> /litre.		
<b>Solids:</b>	10%.		
<b>pH-Value:</b>	10.5.		
<b>Density:</b>	1.23 g/cm <sup>3</sup> .		
<b>Colour:</b>	Clear.		
<b>Performance temperature limitations:</b>	Between -40° and +110°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>
		With Sealer	150 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 0.005 m (50 μm)

### Application Instructions

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Substrates should be firm, free from laitance and clean. The surface must not be coated 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. Use a microfiber pad to even spread the product. Keep wet for 20 minutes without any dry areas, and avoid puddles. Squeegee off excess materials from the surface. The entire densification process takes 25 minutes.

Should lower water absorption on floors be wanted, use SPEKTRIN SILOXANE that has a W-Value of 50 g/m<sup>2</sup>/h<sup>0.5</sup>.

Accepts pedestrian floor traffic after 1-2 hours and light vehicles after 24 hours. One effect of the treatment is that smooth concrete will get a soft gloss (shine) as satin, which can be increased by buffing at high speed ( $\geq 1000$  rpm).

For detailed instructions, see document ***Treatment of Concrete.***

*Note: Product is **corrosive** (pH 10.5). 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:** Must be made within 24 hours.

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

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

**Packages:** Square plastic containers 25 litres, 200l barrels, IBC containers 1000 litres.

**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.