

Product Datasheet

Release date: 08/2016

Revision No: 03

DRS-FLOOR HDSP

**DRS-FLOOR HDSP / DRS-FLOOR HDSP EXT**

Lithium based sealer for easy-to-clean surface, protection against water, oil and stains.

Product description

Working principle of **DRS-FLOOR-HDSP** is based on chemical interaction of Lithium silicate with calcium hydroxyde, which is available in concrete as a lime. The product of the reaction - calcium hydro-silicate - is the main bonding material in concrete.

DRS-FLOOR HDSP protects the surface against water, oil and stains. It makes the surface easy-to-maintain and easy-to-clean.

In contrast to other various floor coatings (epoxy, polymers, hard aggregate toppings, dry shakes etc.), which build up only a thin layer on the concrete's surface, the **DRS-FLOOR HDSP** doesn't create any external coating, but modifies the concrete itself, improves its technical properties without any risk of delamination between the layers.

DRS-FLOOR HDSP is suitable for all indoor applications.

DRS-FLOOR HDSP EXT possesses increased UV-stability and therefore suitable for outdoor applications.

Application

For trowelled, grinded or polished old concrete surfaces.

DRS-FLOOR HDSP can be applied on surfaces previously treated with **DRS-FLOOR HDS+**.

Benefits

- Increases water resistance
- Increases oil resistance
- Increases stain resistance
- Increases the chemical resistance
- Makes surface cleaning easier
- Provides full protection against dusting
- Increase the gloss level essentially
- Hardens the structure of the concrete
- Increases the abrasion resistance of concrete
- Keeps ability of water steam pass through the concrete
- Improves the natural appearance.





Product data

Physical state	liquid
Color	white
Smell	slightly like ammonia
Packaging unit	10 l plastic canister, 25 l plastic canister, 200 l plastic barrel, 1000 l plastic container
Storage	Keep the product tightly sealed at a room temperature higher than 2°C. The loose of DRS-FLOOR HDSP characteristics is possible after freezing. Storage life in factory-sealed container is 6 months.

Physical characteristics

Total solid content	23 %
Content of active ingredients	100%
pH	11
Flammability	No
Freezing point	0 °C

System preferences

Consumption	Smooth, mechanically preprocessed concrete	1 liter for 15 - 40 m ²
Primary drying time	1-2 hours	
Time of the reaction with concrete	The main improvement of concrete performance characteristics are effected within 24 hours after surface processing with DRS-FLOOR HDSP . However in the long-time period after processing, further concrete hardening and surface gloss improvement occurs.	



Conditions of application

Minimal temperature of surface +2 °C

Optimal temperature of surface +4 - +38 °C

General application instructions

Surface preparation

Always test each concrete surface for suitability and desired results. Let surface dry before inspection and approval of desired application.

DRS-FLOOR HDSP can be used on old trowelled and/or grinded, polished concrete surfaces. Before applying the **DRS-FLOOR HDSP** collect the dust from the surface (wet cleaning is recommended). Make sure, that water is fully removed from the surface.

Before applying **DRS-FLOOR HDSP** the surface must dry completely!!!

Application

DRS-FLOOR HDSP should be always applied as a final coating. All foregoing steps of mechanical surface processing (grinding, polishing) should be completed before surface treatment with **DRS-FLOOR HDSP**.

Shake well **DRS-FLOOR HDSP** before using. The best way of application of **DRS-FLOOR HDSP** is spraying over the surface. We recommend to use a hand sprayer. **DRS-FLOOR HDSP** must be sprayed in the quantity to form an equal layer without puddles.

On rough, non-trowelled surfaces we recommend to let the compound soak into the concrete and roll the surface using roller with a fiber mop. After spreading **DRS-FLOOR HDSP** on well-leveled and dense surfaces, the solution must be dispersed using special microfiber mop. The optimal quantity of sprayed **DRS-FLOOR HDSP** should form on the surface a uniform film, which dries within 20 minutes.

For better results 1-2 additional coats of **DRS-FLOOR HDSP** are recommended. Before applying the next coat let the previous coat dry for 30-60 minutes (important!!!) and after that apply the next coat like described above. Multiple thin coats are not recommended!

You can reach significant improvement of concrete hardness and gloss level after treatment with **DRS-FLOOR HDSP** by further polishing of the surface with high speed polishing machine **DBB-700** using pads **DRS-Clean-S-PAD** (Nature Light) or **DRS-HiSpeed-PAD** (#3000). Each coat of **DRS-FLOOR HDSP** should be polished with **DBB-700** about 60 minutes after treatment, when the surface dried completely.

For detailed instructions for various surfaces, please read the Application manual of DRS-FLOOR HDSP or contact your Dr. Schulze DRS-FLOOR consultant.

For safety, toxicological, ecological information please read the safety datasheet.

Stain resistance

All liquids mentioned below were applied on the concrete surface treated with **DRS-FLOOR HDSP**. After stated delay the surface was cleaned with pH-neutral cleaner. Stain resistance was scored from 0 to 10, where 10 means stain could be completely removed and 0 means no change of stain level.

	30 min	1 hour	1,5 hours	24 hours
Balsamic vinegar	10	10	8	8
Red wine	10	10	9	9
Motor oil	10	10	10	10
Grease	10	10	10	10
Hydraulic oil	10	10	10	6

