

Product Datasheet

Release date: 09/2016

Revision No: 01

DRS-FLOOR HDSP MAT



DRS-FLOOR HDSP MAT

Low-gloss, lithium based sealer for easy-to-clean, wear resistant surface, improving of hardness and chemical resistance for concrete and cement-based surfaces.

Product description

Working principle of **DRS-FLOOR-HDSP MAT** is based on chemical interaction of Lithium silicate with calcium hydroxide, which is available in concrete as a lime. **DRS-FLOOR HDSP MAT** dries quickly and forms a hard micro coating.

DRS-FLOOR HDSP MAT won't peel from the surface due to the chemical reaction.

DRS-FLOOR HDSP MAT is a non-toxic and non-hazardous material with low VOC content (<50 g/l).

DRS-FLOOR HDSP is suitable for all indoor applications.

For the best results, application of **DRS-FLOOR HDS+** prior to the treatment with **DRS-FLOOR HDSP MAT** is recommended.

Application

For non-porous, trowelled, ground or polished indoor concrete surfaces.

DRS-FLOOR HDSP MAT 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
- 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.
- Reduces the cost of maintenance





Product data

Physical state liquid

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 MAT** characteristics is possible after freezing.
Storage life in factory-sealed container is 12 months.

Physical characteristics

Content of active ingredients 100% of total solids

pH 11,5

VOC content <50 g/l

Freezing point 0 °C

Shelf life 1 year (in unopened factory sealed container)

System preferences

Consumption Smooth, mechanically preprocessed concrete:

- First coat: 1 liter for 15-25 m²
- Second coat: 1 liter for 25-40 m²
- Third coat: 1 liter for 40-60 m²
- Fourth coat: 1 liter for 60-75 m²

Primary drying time (Texture of the concrete determines the coverage rates.)

Time of the reaction with concrete 30-60 mins

The main improvement of concrete performance characteristics is effected within 7 days. On the first week, applied surface should be kept dry. Do not allow water to dwell on the surface during the first week after application.

Conditions of application

Minimal temperature of surface +2 °C

Optimal temperature of surface +4 - +38 °C



General application instructions

Surface preparation

Apply only when temperature will be above 2°C for at least 4 hours after the application.

DRS-FLOOR HDSP MAT can be used on old trowelled or on low polished (up to #100 resin) concrete surfaces.

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

Before applying the **DRS-FLOOR HDSP MAT** collect the dust from the surface. Wet cleaning with automatic scrubber with neutral cleaner is recommended. Avoid citrus or butyl compounds.

DRS-FLOOR HDSP MAT is not compatible with acidic surfaces, so in case of acid stain on the initial surface, neutralization is required.

Make sure, that water is fully removed from the surface. Before applying **DRS-FLOOR HDSP MAT** the surface must be completely dry!!!

Application

WARNING: Before to apply DRS-FLOOR HDSP MAT it is very important to mix the product with a mixer or a drill!!! During the application please mix the liquid several times again.

Slightly humidify your microfiber with **DRS-FLOOR HDSP MAT** and push the microfiber on a piece of concrete before the application. (Make sure, that your microfiber mop isn't full of the liquid, only slightly humid.)

Spray **DRS-FLOOR HDSP MAT** (1 liter for 15-25m² depending on the concrete structure) lightly over the surface, than spread it with the microfiber mop. We recommend to work in small sections (about 6x6 m).

Do not over apply! Apply only a very thin coat. If you apply too much product, you will get white spots on the floor. Exceed cured material can be removed only by grinding!

Do not work the material into the surface! Spread it and leave it. Don't go 2 or 3 times with your microfiber on the product - it increases the risk to get lines on the surface!

Wait 30-60 minutes to dry, than apply high speed burnishing (**DBB-700** on 1500-2100 rpm with **DRS-Clean-S-PAD**) and apply the second coat. Second coat will need much less liquid, than the first coat (1 liter for 25-40m²).

For best results 4 coats with subsequent burnishing are recommended.

Do not cover treated surface for at least 1 week. Do not allow water to dwell on surface for at least 1 week.



General work sequences in case of strong concrete bond and not porous surface:

- Grind the floor up to the required metal bond grit (optional)
- Apply **DRS-FLOOR HDS+** (if required)
- Polish with resin bond up to #100
- Clean and let the surface completely dry
- Apply first coat of **DRS-FLOOR HDSP MAT** ($\approx 15-25$ m²/liter)
- Burnish after 30-60 minutes with **DBB-700** on 1500-2100 rpm with **DRS-Clean-S-PAD**
- Apply second coat of **DRS-FLOOR HDSP MAT** ($\approx 25-40$ m²/liter)
- Burnish after 30-60 minutes with **DBB-700** on 1500-2100 rpm with **DRS-Clean-S-PAD**
- Apply more coats if required

For detailed instructions for various surfaces, please contact your Dr. Schulze DRS-FLOOR consultant.

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