Dr. Schulze GmbH
DRS-FLOOR

DR. SCHULZE GMBH
presents
SURFACE ENGINEERING SOLUTIONS FOR INDUSTRIAL AND COMMERCIAL CONCRETE FLOORING



DRS-FLOOR



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Diamond tools and machines

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Price per piece, ex works. Our general conditions are valid.
For articles marked with ⚙ the conditions for machines are valid.

WHY POLISHED CONCRETE?

IN CONTRAST TO THE VARIOUS FLOOR COATINGS (EPOXY, POLIMERS, HARD AGGREGATE TOPPINGS, DRY SHAKES ETC.) THE DRS-FLOOR TECHNOLOGY DOESN´T COMPRISE ANY EXTERNAL COATING ON THE CONCRETE SURFACE, BUT MODIFIES THE CONCRETE ITSELF, IMPROVES ITS TECHNICAL PROPERTIES WITHOUT ANY RISK OF DELAMINATION BETWEEN THE LAYERS

OPTICAL CHARACTERISTICS



Diversity

- industrial and commercial floors
- mat or high-gloss surfaces
- with predicted and adjustable properties

Decorative variety

- colouring through pigmentation, semi-transparent colours or through surface painting
- easy production of multicolour surface paintings (company´s logo, markings etc.)



Reflection

- high-reflective surface
- more light in the premises
- saving of electricity costs
- comfortable ambience

FUNCTION

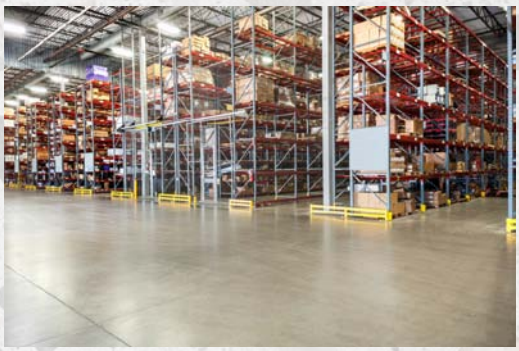


Technical performance characteristics

- high strength and hardness
- excellent wear resistance
- non-dusting surface
- good slipping resistance (safety for your staff and your visitors)

Dense and stain resistant surface

- water permeability
- protection against stains, oils, chemicals and other impurities
- adjustable protection level against project-specific stains
- minimal amount of joints





Low wear of tires in storage and production halls

- even, flat surface ensures low tire wear of forklifts and other handling equipments
- low noise level while moving over the surface

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WHY POLISHED CONCRETE?

COST-EFFECTIVENESS

Short construction period

- full load can be applied 24 hours after last construction step
- minimal requirements to construction place (temperature, humidity, wind etc.)
- concurrent construction works in the same premises possible





Simple and quick maintenance and renewal

- multiple renewable without dust, noise, smell and aggressive chemicals
- without interrupts of premise´s usage
- low expenses for maintenance and reconstruction

Optimal costs/performance proportion

- long life of up to 50 years
- less maintenance and renovation required
- renewal with low time and investment demand

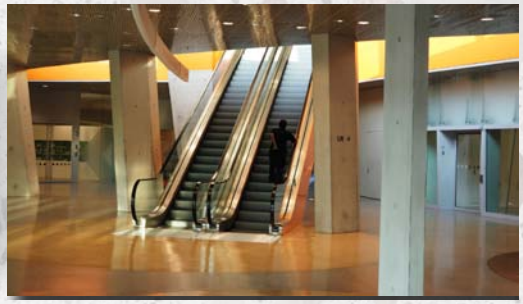


Simple reconstruction of old floors

- improving of properties of old concrete floors with densifiers and sealers
- cost-saving due to retaining of old floor material

Environment friendly

- no aggressive, contaminated and strong-smelling chemicals during construction, maintenance and renewal
- no dust pollution
- health-safety for workers, users and visitors





Local availability of all construction materials

- all components of concrete floor are available everywhere in the world not far from the place of construction
- no need of transportation of various materials (tiles, stones, glues, primers etc.) from all around the world
- simple logistics of minimal amount of concrete floor components

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WHY POLISHED CONCRETE?

Characteristics	Polymers/ epoxy coatings	Hard aggregate toppings	DRS-FLOOR concrete floor
Wear resistance			
Dust-free / hygienic			
Risk of delamination			
Water permeability			
Stain and chemical resistance			
Cleaning ability			
Surface levelling efficiency			
Premise´s usage interrupt for maintenance and renewal			
Smelling, aggressive chemicals			
Requirements to place of construction			
Maintenance costs			
Life time	max. 5-7 years	max. 10-15 years	up to 50 years
Reconstruction costs (compared with initial investment)	> 100%	> 100%	< 30%
Price per m²	25-50 €/m²	5-25 €/m²	from 5 €/m²

AGGREGATE´S EXPOSING RATE

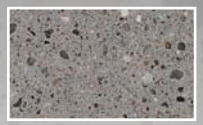
Final grinding/polishing step	Gloss level
Metal bond #120 / Resin bond #100-200	Mat surface
Resin bond #400-800	Medium gloss
Resin bond #1500-3000-BUFF	High gloss

Stage of aggregate‘s exposing

Industrial finish
without aggregate´s exposing



Universal finish
with partial aggregate´s exposing



Commercial finish
with full aggregate´s exposing



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DRS-FLOOR INDUSTRIAL







DRS-FLOOR DESIGN







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DRS-FLOOR LITHIUM CONCRETE TREATMENTS

Dr. Schulze GmbH presents a full range of lithium-based chemicals for concrete treatment and maintenance to be applied in:

- production facilities
- warehouses and storage buildings
- car parking
- aviation hangars
- freight terminals
- hospitals and medical facilities
- food industry estate
- shopping malls
- cinemas, schools, shops
- hotels, offices
- entrance halls, stairs
- living premises



DRS-FLOOR lithium-based concrete treatments ensure the concrete surface the highest protection level against wear, scratches, stains, chemicals, salts, delamination, fading and from destruction through acids, chemicals, oils etc.





Advantages of LITHIUM against sodium and potassium:

- **smallest atom size**
- **lowest viscosity**
- **lowest alkalinity (slow and consistent reaction between lithium densifier and concrete)**

- DRS-FLOOR LITHIUM penetrates deep into the concrete
- DRS-FLOOR LITHIUM creates thick, hard and resistant layer on the concrete surface
- DRS-FLOOR LITHIUM doesn´t enter any reaction with water
- DRS-FLOOR LITHIUM doesn´t form salt debris after application or after contact with water
- DRS-FLOOR LITHIUM doesn´t require any salt cleaning procedure after application

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DRS-FLOOR LITHIUM CONCRETE TREATMENTS

DRS-FLOOR CM

CURING MEMBRANE



DRS-FLOOR CM is a paraffinic water-based compound, that fulfills and surpasses the requirements of ASTM C-309 „Liquid Membrane – Forming Compounds for Curing Concrete" moisture retention requirements. **DRS-FLOOR CM** is to be directly applied on fresh casted concrete or screed. It creates on the surface a clear membrane and prevents the water evaporation from the surface, which ensures an increased concrete strength as well as a considerably reduced tendency to crack formation.
DRS-FLOOR CM usually completely disappears within 60-120 days after the treatment and the surface can be treated and coated onwards. For earlier processing the membrane rests must be removed mechanically.
Excellent for new commercial and industrial floors and screeds.
Substitutes cumbersome covering of fresh concrete surfaces with plastic foil.

DRS-FLOOR HDS

HARDENER + DENSIFIER + SEALER



DRS-FLOOR HDS is an advanced concrete lithium-based densifier for easy single-coat application and requires no water rinsing after treatment. When sprayed it forms an extremely hard, stain resistant, dense and protective surface layer that is breathable and abrasion resistant. This multifunctional hardener, sealer, densifier creates a stronger, more impenetrable and better-looking finish (satin-glossy) that is dust-proof and resistant to staining and deterioration. **DRS-FLOOR HDS** can be applied on old or fresh concrete, on floors and walls.

DRS-FLOOR HDS+

HARDENER + DENSIFIER + SALT PROTECTION + SEALER



DRS-FLOOR HDS+ provides all the protection of the **DRS-FLOOR HDS** with an additional sealing function against salts and penetrating water. It hardens, seals and densifies concrete and masonry surfaces generating a salt ion screen and water repellent characteristic even through regular maintenance, de-icing, pressure washing, pedestrian and traffic wear. It also protects and enhances the appearance of interior and exterior decorative polished concrete.

DRS-FLOOR HDSP

SEALER + POLISH + HARDENER + DENSIFIER



DRS-FLOOR HDSP is a high-performance industrial flooring protective clear coating, which hardens and seals concrete floors, producing a very hard, dust repellent, chemical resistant, maintenance-friendly and water tight surface. **DRS-FLOOR HDSP** is the optimum coating system for high-demand commercial and industrial premises. Whether the surface must tolerate significant foot traffic, large equipment, abrasion or chemicals
DRS-FLOOR HDSP ensures high durability and bond strength, ability to withstand UV, stains, chemical spills and heavy traffic. **DRS-FLOOR HDSP** provides rapid curing, attractive clear glossy finish and easy application for facilities, which require maximum protection and no shutdown. After application the surface is accessible within less than 1 hour and can take the full load after only 24 hours.

DRS-FLOOR HDSP EXT

SEALER + POLISH FOR EXTERIOR APPLICATION



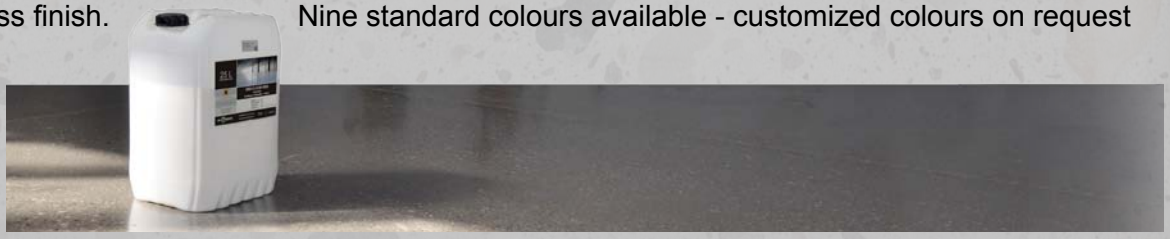
The function and application of **DRS-FLOOR HDSP EXT** correspond so far to those of **DRS-FLOOR HDSP** however the **HDSP EXT** ensures the ability to withstand UV and frost and therefore is suitable for outdoor applications for protection of various concrete surfaces, concrete products, masonry, slate as well as some kinds of natural stone.
Surface treated with **DRS-FLOOR HDSP EXT** gets a permanent wet gloss, provides excellent water and stain resistance and increased wear protection. Furthermore the surface becomes easy to clean and to maintain without any after-treatment.

DRS-FLOOR CT

COLOR TRANSPARENT



DRS-FLOOR CT is a unique lithium-based semi-transparent paint designed to provide industrial strength performance and an attractive finish for interior concrete. This durable penetrating color sealer hardens, dust proofs and protects against UV and staining while providing a satin or a gloss finish. Nine standard colours available - customized colours on request



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BEFORE / AFTER












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