

System solutions for industry

The right solution for every challenge

Floor coating



Coating for industrial
use

At industrial sites, floor coatings are put through their paces in all manner of ways. High levels of mechanical stress, chemical attacks, as well as heat stress require highest resistance of the floor. We have a broad range of products to cater to every situation – from floors in non-critical production areas to electrically conductive floors or solutions for chemical stores.

Cover photo:

Painting hall, Strautmann Hydraulik GmbH & Co. KG, Melle, DE

StoCretec expertise: StoPox GH 530, StoPox KU 601

Photo: Prekwinkel Strahl- & Beschichtungstechnik GmbH, Herford

It should be noted that the details, illustrations, general technical information, and drawings contained in this brochure are only general proposals and details which describe the functions. They are not dimensionally accurate. The applicator/customer is independently responsible for determining their suitability and completeness for the construction project in question. Neighbouring works are only described schematically. All specifications and information must be adjusted or agreed in the light of local conditions and do not constitute work, detail or installation plans. The technical specifications and information on the products contained in the Technical Data Sheets and system descriptions/approvals must be observed.



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Building with conscience. With industrial floors from StoCretec

Reliable, long-lasting, and proven many times over

At industrial sites, floor coatings are put through their paces in all manner of ways:

- High levels of mechanical and dynamic stress from vehicles, machines, or goods
- Chemical stress from various substances or mixtures
- Heat stress

So that makes choosing a suitable coating build-up – from the primer and the finishing coat right the way up to the sealing coat – all the more important.

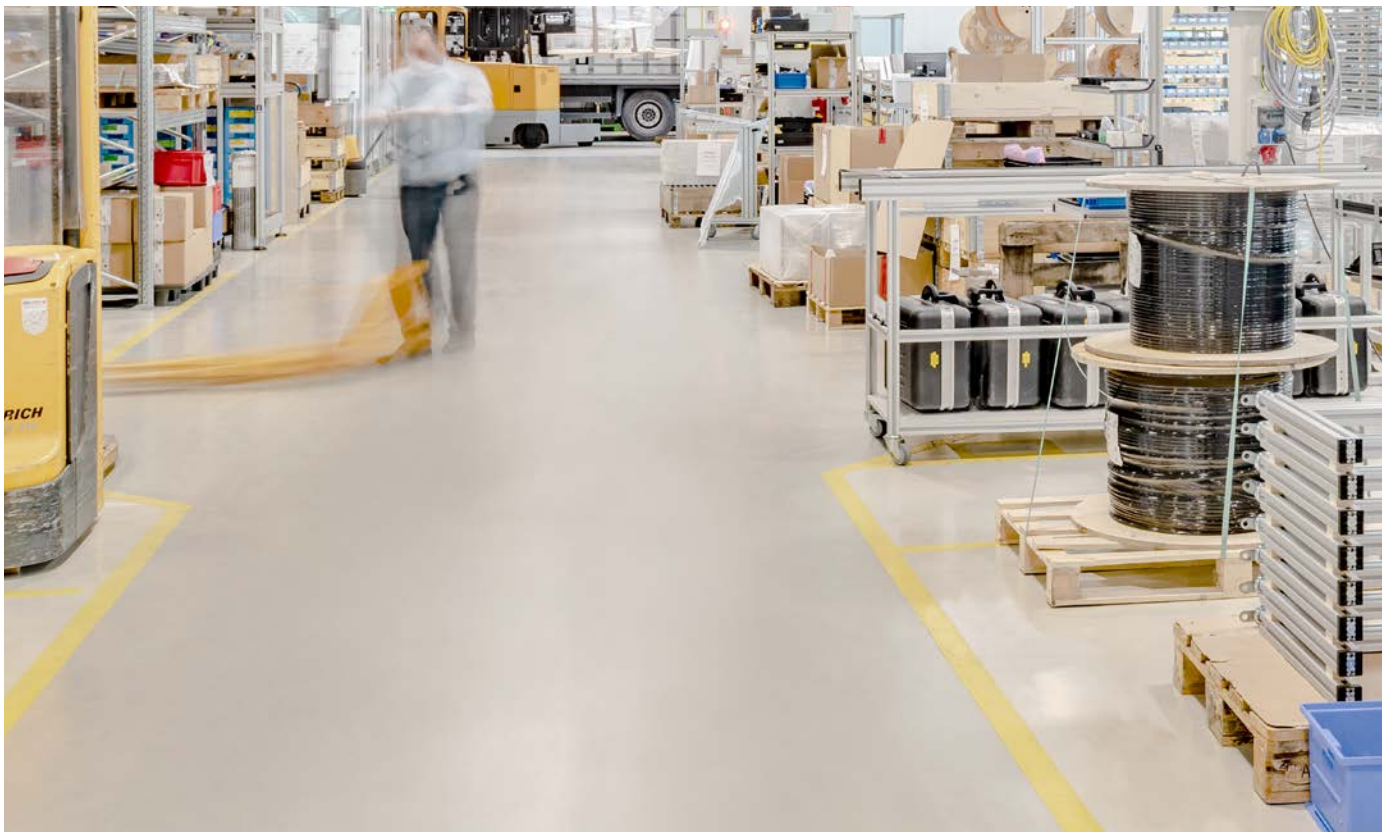
Do you require a solution that provides a high level of mechanical resistance for your production area, an electrically conductive coating, or a floor that meets the requirements of the German Federal Water Act? Does the floor also need to be

slip-resistant or particularly resistant to abrasion? Together, we will find the ideal coating solution for your floor areas. Our tested and externally monitored system solutions have already proven their functionality many times over. Additional coatings for parking areas and indoor car parks as well as for common rooms and presentation areas complete our portfolio. We can provide everything you need from a single source.

What's more, we are continuously working to further develop our coating solutions with the following goal in mind: Building with conscience. It is our mission to assist you by providing reliable system solutions that are tailored to your individual requirements.

Image below:
**Heron factory,
Dornbirn, AT**
StoCretec expertise:
StoPox BB OS, StoPox
MS 200, StoPox KU
401
Photo: Sto Ges.m.b.H.

Image on right:
**Sanacorp Pharma-
handel GmbH, Hürth,
DE**
StoCretec expertise:
StoPox WG 100, StoPox
WL 110, StoPox WB
110, StoDivers P 110
Photo: Guido Erbring





Primers

Floor coatings require a solid base: careful substrate preparation and a primer that is tailored to the substrate. The primer permanently bonds the coating build-up to the substrate. So its compatibility with various screed types, such as cementitious, calcium sulphate, magnesite, and mastic asphalt screed, has to be taken into account.

When it comes to problematic substrates with rising damp, oil-contaminated floors, or stressed existing coatings, we will find a reliable and lasting solution for any challenge.

You can find further information on our primers at www.stocretec.de or in our Technical SupportCentre.



Floor systems for the electrical industry

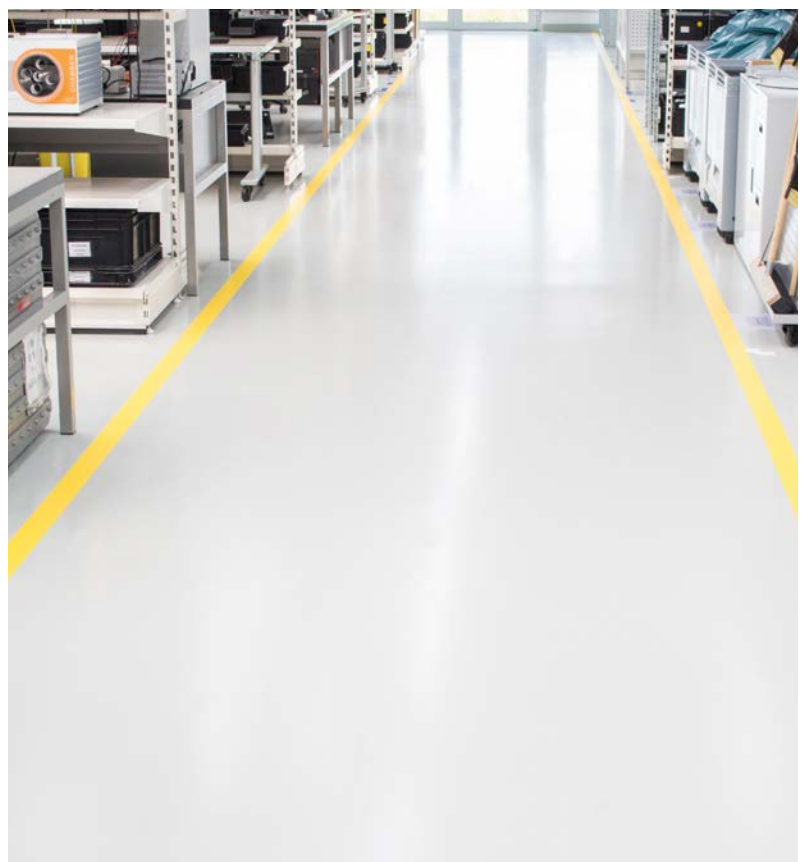
Safe and reliable solutions from the technology leader

For many production plants, protection against electrostatic discharge is vital for creating error-free end products. Conductive floor coatings are among the methods used in these sensitive situations. Various system solutions ensure that sensitive electronic components are protected against electrostatic discharge and keep people safe from electric shocks. Our ESD coating build-ups have been extensively tested and meet all applicable standards. They have proven their worth in numerous construction projects. As a technology leader in this area, we are continuously working to develop our range further – meaning we can guarantee you will receive the most reliable solutions every time.

System tip

StoFloor ESD WB 110 with StoPox WL 113

- Application range: ESD-protected areas, server rooms, clean rooms, battery rooms, areas exposed to explosive hazards, production halls and storage areas for electronic components, automotive industry production halls
- Ensures ESD component protection, personal protection, and explosion prevention
- Low-emission coating build-up in accordance with the assessment scheme of the Committee for Health-related Evaluation of Building Products: physiologically harmless
- Good mechanical resistance: long-lasting, suitable for vehicle traffic with Vulkollan or solid rubber tyres
- Slip resistance class R9: occupational safety in accordance with regulation ASR A1.5
- Excellent light fastness



**FSM AG, Kirchzarten,
DE**

StoCretec expertise:
StoPox GH 205, StoPox
KU 611, StoPur KV
Photo: FSM AG, Kirchzarten/
Santha Zeiher

Floor systems for the chemical industry

Water protection in line with the German Federal Water Act

Water protection coatings seal concrete floors in facilities that handle water pollutants. They prevent harmful substances from polluting waters. Our water protection coatings have been tested and approved in accordance with the current approval principles of the Deutsches Institut für Bautechnik (DIBt). A large number of references confirm its flawless functionality.

The legal basis is provided by the German Federal Water Act (WHG). Under section 62 of the act, everyone is required to prevent the contamination of waters. Accordingly, facilities that store, fill, produce, treat, and use water pollutants must be

procured in such a way as to ensure that no adverse change to bodies of water occurs (principle of concern).

Only certified applicators are permitted to apply water protection coatings. This ensures high quality standards and lasting safety. Together with other partners, we provide training and further education in this field of application. We are happy to support you in finding certified applicators.

**Industrial building,
DE**
StoCretec expertise:
StoFloor Industry
Elastic WHG Deck 100
Photo: Anja Schlamann

System tip

StoFloor Industry Elastic WHG Deck 100

- Very high chemical resistance
- Impermeable to liquid: protects ground water against chemicals
- Electrically conductive system build-up possible: ensures explosion prevention in chemical storage facilities and production areas
- Very high mechanical resistance: long-lasting, suitable for vehicle traffic with polyamide, Vulkollan, or solid rubber tyres
- Slip resistance class R9: occupational safety in accordance with regulation ASR A1.5





Floor systems for the automotive industry

Tailored to individual requirements

Floors with high mechanical resistance for production areas and transport routes. Dissipative floor coating systems for automated assembly lines. Cleanroom coatings for laboratories. Chemically resistant floors for hazardous goods stores or painting lines. Working together with everyone involved in the construction project, we will find coating solutions that reliably meet your individual requirements regarding functionality and appearance.

Our coating build-ups are externally monitored, providing you with the greatest possible assurance of their quality. Numerous references attest to their reliable and long-lasting functionality.

System tip

StoFloor ESD KU 614

- High mechanical resistance: high point load, suitable for vehicle traffic with polyamide, Vulkollan, or solid rubber tyres
- Electrically conductive: ensures ESD component protection, personal protection, and explosion prevention, depending on the system build-up
- Medium resistance to a wide range of chemicals
- Slip resistance class R10: occupational safety in accordance with regulation ASR A1.5
- Free of substances that interfere with paint wetting



**Skoda car factory,
Mlada Boleslav, CZ**
StoCretec expertise:
StoPox GH 205,
StoDivers LB 100,
StoPox WL 110,
StoPox KU 611

Image on right:
We offer coating
solutions to meet your
individual requirements
Photo: Nataliya Hora/Adobe
Stock





Floor systems for the mechanical engineering industry

Resistant to mechanical stress

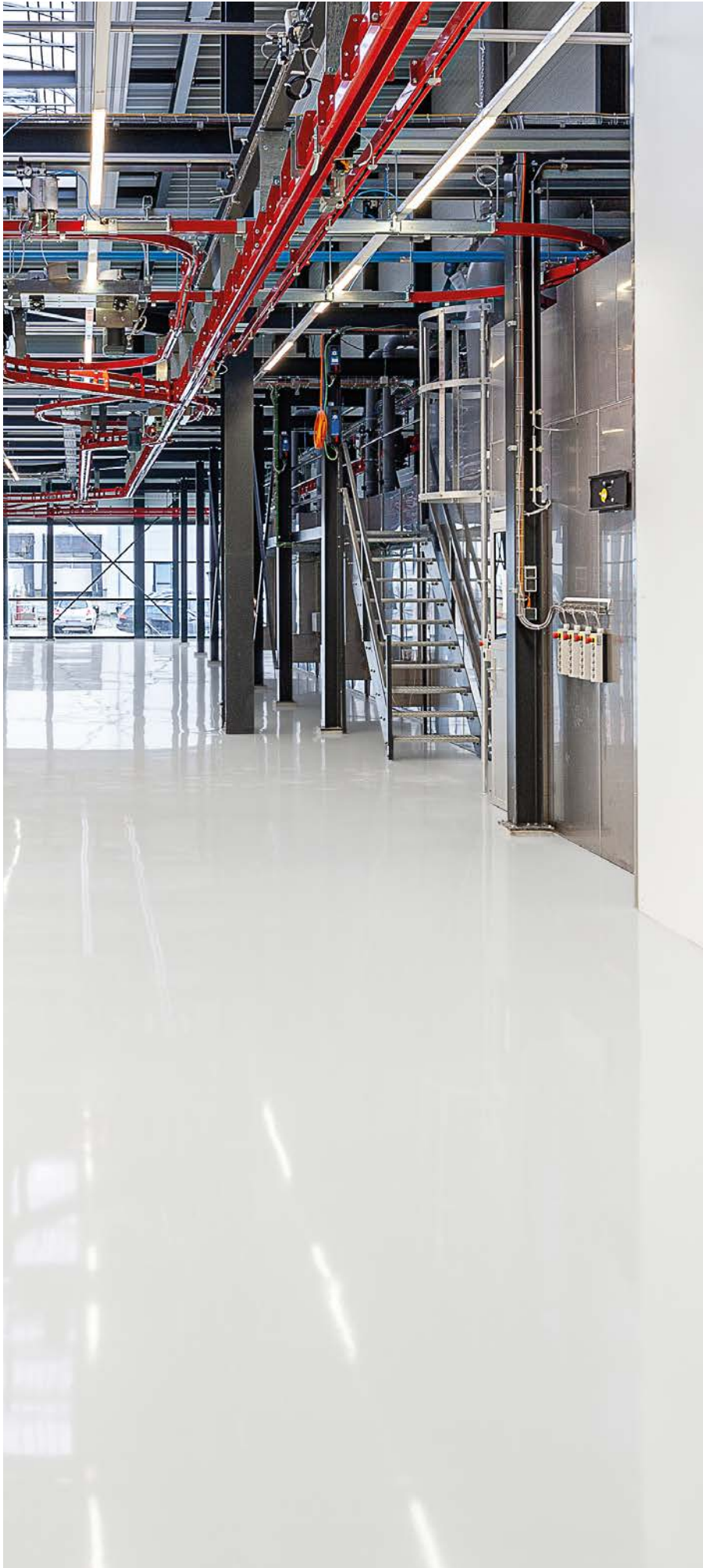
The floors of mechanical engineering companies need to be able to withstand huge levels of mechanical stress day in, day out. Bulky production equipment as well as the transportation and storage of heavy loads result in point and surface loads. Occupational safety and environmental protection are also important aspects to be considered.

Our floor coating systems for the mechanical engineering industry are highly resistant to static and dynamic loads. They are suitable for vehicle traffic from commonly available transport and

warehouse vehicles as well as automated guided vehicles. For requirements relating to water protection, we offer special coating solutions that are resistant to chemicals and can withstand high levels of mechanical stress.

All systems can be adapted for slip resistance, ensuring occupational safety. Visual markings in production, storage, and traffic areas can be incorporated using a wide range of colour shades. We take your requirements into account to find the ideal solution for your floor.





Painting hall, Strautmann Hydraulik GmbH & Co. KG, Melle, DE

StoCretec expertise: StoPox GH 530, StoPox KU 601

Photo: Prekwinkel Strahl- & Beschichtungstechnik GmbH, Herford

Image on left:

Corning Cable Systems GmbH & Co. KG, Hagen, DE

StoCretec expertise: StoPox BB OS, StoPox CS 100

System tip

StoFloor Industry KU 601

- Very high mechanical resistance: long-lasting, suitable for vehicle traffic with polyamide, Vulkollan, or solid rubber tyres
- High chemical resistance
- Cleaning at temperatures up to +80 °C (short-term) possible
- Low-emission coating build-up in accordance with the assessment scheme of the Committee for Health-related Evaluation of Building Products: physiologically harmless
- Slip resistance class R9: occupational safety in accordance with regulation ASR A1.5
- Electrically dissipative system build-up possible: ensures ESD building component protection and personal protection



Floor systems for the pharmaceutical industry

Cleanroom coatings meet the very highest requirements

Pharmaceutical products are produced under controlled ambient conditions. As a result, floor coating systems used in the pharmaceutical industry are only permitted to allow low particle emissions. Other important properties include:

- Good cleanability
- Good resistance to disinfectants
- Good ease of decontamination
- Resistance to chemicals
- Metabolising potential
- Microbicidity
- Appearance
- Slip resistance

Our ten floor coating systems for clean rooms and clean manufacturing areas have been tested in line with the specifications of the Fraunhofer Institute for Manufacturing Engineering and Automation (IPA). Together, we will find the ideal solution for every construction project. Five coating build-ups for walls and ceilings complete our clean room range.

Phylak Sachsen GmbH, Burgneudorf, DE
StoCretec expertise:
StoPox GH 205, StoPox WL 110, StoPox KU 611, StoPur KV
Photo: Alexander Sommer, PHYLAK Sachsen GmbH

System tip

StoWall Cleanroom WL 100

- Coating build-up for walls and ceilings
- Meets the requirements for use in cleanrooms: dust-free, low particle emissions
- Smooth, seamless surface: good cleanability, good ease of decontamination
- Medium resistance to a wide range of chemicals and disinfectants
- Resistant to fungi and bacteria
- Low-emission coating build-up in accordance with the assessment scheme of the Committee for Health-related Evaluation of Building Products: physiologically harmless



Floor systems for the medical technology industry

High-performance and reliable system solutions

Medical devices are extremely sensitive. In some cases, they are manufactured and packaged in clean room conditions. This protects the health of the patient and ensures the product's functionality. Hygiene is the top priority. Floor coating systems therefore need to be low-emission and abrasion-resistant. They need to demonstrate good cleanability and be resistant to disinfectants. Electrical conductivity of the coating build-up is also an important requirement. Electrostatic potential can attract small particles such as dust, contaminating products.

We are continuously working to develop our floor coating range further in order to provide you with the safest and most reliable solutions. Our coating build-ups have been extensively tested and meet all relevant standards. They have proven their worth over the long term in numerous construction projects.

In some cases, medical devices are manufactured in cleanroom conditions.
Photo: Gorodenkoff/Adobe Stock

System tip

StoFloor Cleanroom BB OS

- Meets the requirements for use in cleanrooms: good abrasion resistance, low particle formation
- Low-emission coating build-up in accordance with the assessment scheme of the Committee for Health-related Evaluation of Building Products: physiologically harmless
- Resistance to a wide range of chemicals and disinfectants
- Mechanical resistance: long-lasting, suitable for vehicle traffic with Vulkollan or solid rubber tyres
- Smooth, seamless surface: excellent cleanability
- High colour shade variety





Floor systems for common rooms and public areas

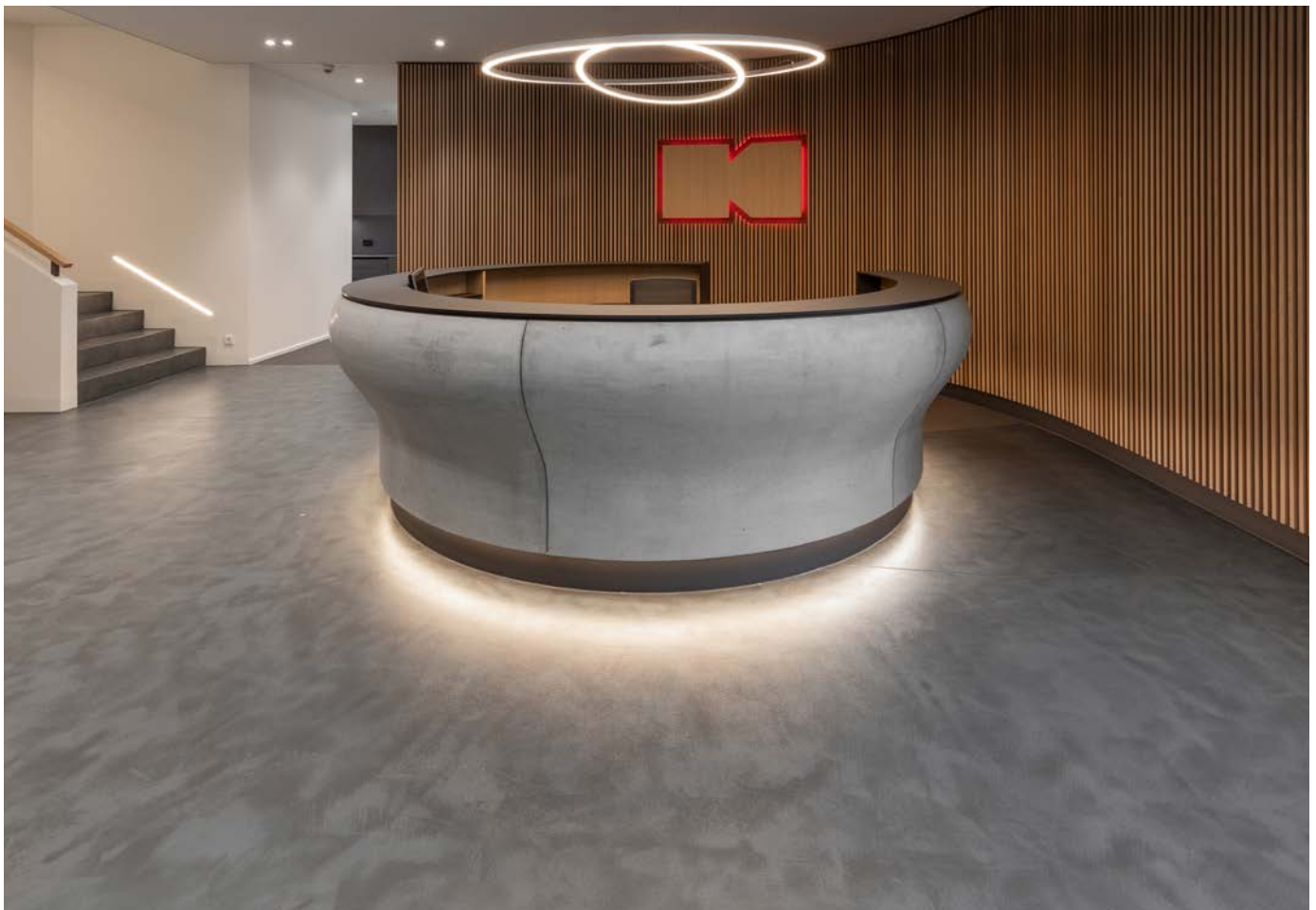
Health and well-being are the top priority

In common rooms, products may only be used provided their VOC content* is below the strict thresholds specified by the German Federal Environment Agency. This is because protecting people's health and well-being is the top priority. Our floor coating systems are totally free of solvents and plasticisers. They have been tested and approved by the Committee for Health-related Evaluation of Building Products (AgBB). In addition, they fulfil European requirements in accordance with the REACH Regulation as well as the Deco-paint Directive.

Our coating build-ups offer a whole host of design possibilities with respect to colour schemes and surface textures. System solutions which reduce impact sound ensure improved noise levels. Coating build-ups with high mechanical resistance are used in spaces with a lot of public traffic. To ensure an attractive and well-maintained appearance that lasts, we recommend our floor care dispersions and cleaning agents.

* VOC = volatile organic compounds

**Entrance hall,
Augsburg, DE**
StoCretec expertise:
StoFloor Comfort BF
700
Photo: Martin Duckek, Ulm





**Berlin Institute for Medical Systems Biology,
Berlin, DE**

StoCretec expertise: StoFloor Comfort Elastic BB
100

Photo: Horst Krüger/MDC

System tip

StoFloor Comfort Elastic BB 100

- Low-emission coating build-up in accordance with the assessment scheme of the Committee for Health-related Evaluation of Building Products: physiologically harmless
- Attractive appearance: custom, project-specific colour design possible
- Slip resistance class R9: occupational safety in accordance with regulation ASR A1.5
- Reduction of impact sound pressure level: impact sound improved by 4 dB in accordance with EN ISO 140-8



Overcoating or converting existing coatings

Quick, economical, sustainable

Is your floor coating worn or no longer fully functional – or has it lost its good looks? Does the floor need to meet new requirements – perhaps relating to chemical or mechanical resistance, slip resistance, or electrical conductive capacity?

Load-bearing existing coatings can be overcoated. Extensive refurbishment including shot blasting, milling off, and a new coating build-up is often not necessary.

Our offer to you not only includes a comprehensive range of primers, coatings, and sealing coats for overcoating existing coatings: we will also provide technical support during the planning process, apply sample surface areas on site, and draw up bills of quantities for you. In addition, we can supply suitable products for initial cleaning and maintenance. Your new floor will retain its attractive visual appearance and remain fully functional for a long time to come.

StoPox WL 113
Provides existing coatings with dissipative properties, e.g. when converting a room to a battery room.
Photo: denboma/Adobe Stock

System tip

StoFloor ESD WL 113

- Good mechanical resistance: suitable for vehicle traffic with Vulkollan or solid rubber tyres
- Electrically conductive: ensures ESD building component protection, personal protection, and explosion prevention
- Good resistance to a wide range of chemicals
- Water vapour diffusion open
- Can be adapted for slip resistance: occupational safety in accordance with regulation ASR A1.5
- Meets the requirements for use in clean-rooms: dust-free, low particle emissions
- Excellent light fastness
- Suitable for applying solvent-free, non-conductive epoxy resin coatings and mineral substrates with conductive properties
- Suitable for restoring the conductive capacity of solvent-free, conductive epoxy resin coatings





Repairing or repurposing buildings

Preserve and protect the building fabric on a lasting basis

When repairing or repurposing concrete buildings, we recommend our extensive concrete repair range. Whether they're used for repairing minor damage or restoring the resistance of building elements or structures, our products and system solutions have been tested and have already proven themselves in the face of a wide variety of challenges.

With our highly effective surface protection systems, you can colour and protect your concrete facade simultaneously. Your buildings will retain their attractive appearance for a long time to come. The building fabric is protected against water and harmful substances on a lasting basis.

**Silo renovation,
Spenner Zement,
Erwitte, DE**
StoCretec expertise:
StoCrete TS 203,
StoCrete FB, StoCryl
RB, StoCryl V 100





Sto acoustic systems for industry

Optimise room acoustics, ensure sound insulation and noise protection

Requirements on reverberation time, sound distribution, or speech intelligibility change depending on how a room is used. In offices, meeting rooms, or lobbies, for example, cushioned silence is valued. Meanwhile, in production areas or equipment rooms, it is noise protection and sound insulation that count.

Acoustics are influenced by various factors: the composition of floors, walls and ceilings, the ambient interior climate, the type of furniture, and the number of people. Many years of research, experience gained from many successful projects, and cooperation with leading architects, tradespeople, and acoustics experts have resulted in systems that take these factors into account and optimise the acoustics of any room.

The four StoSilent systems offer more than just the technical conditions for the best sound properties in rooms. The interaction of StoSilent with highly varied finishes and the numerous colour shades of the StoColor System provide you with virtually unlimited design freedom.

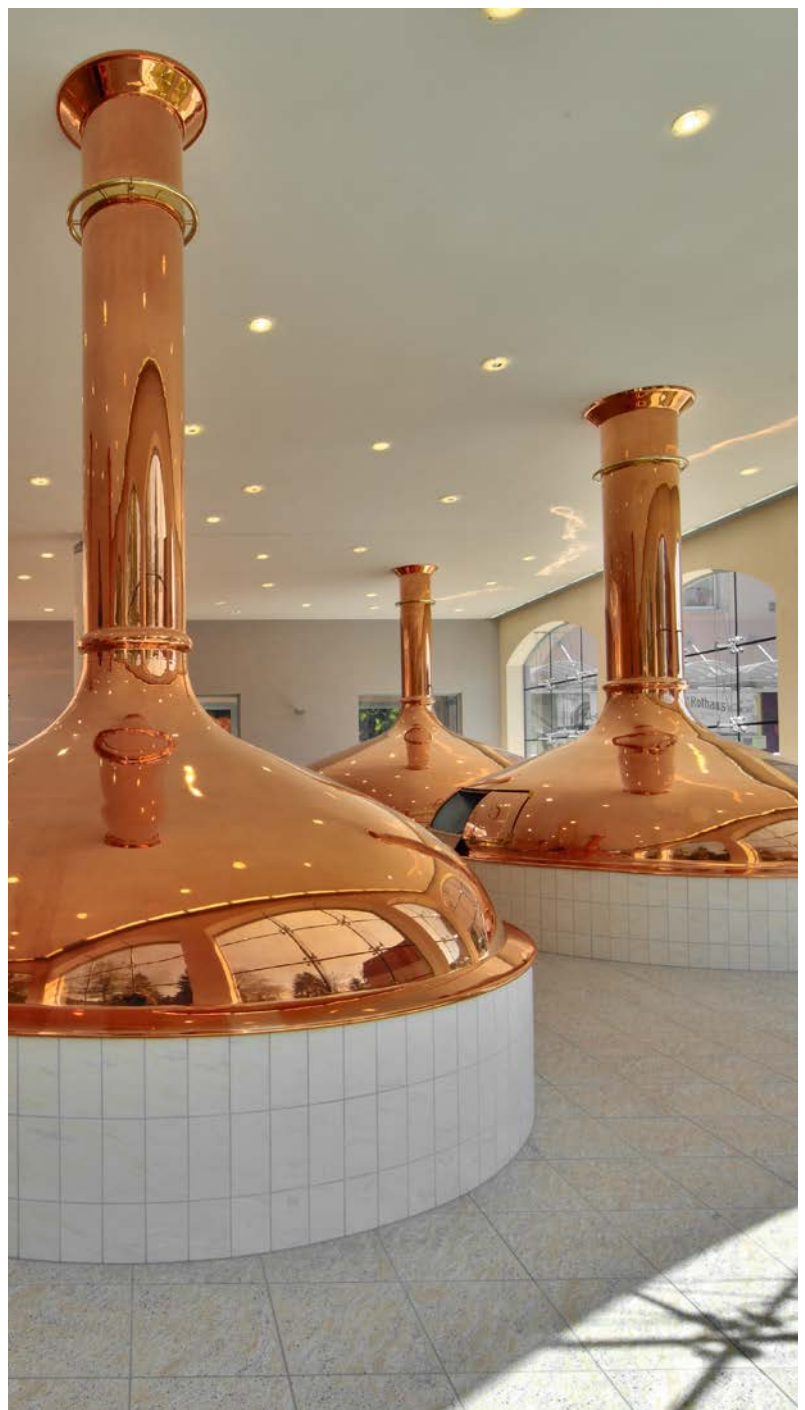


Image on left:
Rothaus brewery, Grafenhausen-Rothaus, DE
Sto expertise: StoSilent Superfine, StoSilent Decor M
Photo: Martin Duckek

Image on right:
Application example: open workspace
Sto expertise: StoSilent Modular 300



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