



StoCretec GmbH

Competence in concrete
restoration and floor coating

It should be noted that the details, illustrations, general technical information and drawings contained in this brochure are only general proposals and details which merely describe basic functions schematically. No precise dimensions are included. The applicator/customer is independently responsible for determining the suitability and completeness for the product in question. Neighbouring works are described only 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 product information in the Technical Data Sheets and in system descriptions/certificates must be observed.

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StoCretec – concrete protection, concrete restoration, and floor coating

Concrete is essential for modern architecture. Its properties are convincing – whether in industrial, traffic and water constructions, or residential and office buildings. However, weathering influences, aggressive pollutants, and adverse use leave their mark: StoCretec provides concrete constructions with the protection that they need and even helps to neutralise environmental pollutants.

Floor coatings from StoCretec naturally fulfil the wide variety of technical requirements made of them. However, they also stand for a wealth of product variants, combination possibilities, and aesthetic appeal. The impregnations, sealings, thin- and thick-layer systems, as well as screeds that are suitable for new buildings and refurbishments are predominantly solvent-free. Their excellent durability contributes to economic building.



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Concrete protection and concrete restoration

Preserving the substance while creating new values

Concrete is actually an excellent building material – when considered from an economic, process engineering, static, and architectural point of view. However, this material has an Achilles' heel: if its reinforcement steel corrodes, the appearance or even the function of reinforced concrete buildings will be negatively affected, regardless of whether facades, bridges, tunnels, wastewater treatment plants or power stations are concerned. In addition to harmful environmental influences, adverse use or even overloading contribute to damaging the concrete and thus the construction.

Preventive concrete protection measures are therefore essential. Prophylactic surface area protection from StoCretec starts with water-repellent impregnations and ends with crack-bridging coatings in a wide variety of versions. If the concrete is already damaged, StoCretec systems for restoration provide relief.

The equally functional and economic products have been tested, precisely matched, and restore the function as well as the appearance of the constructions. From an economic point of view, both areas of activity – concrete protection and concrete restoration – are enormously important.





Traffic

Systems that have been tested and listed by the German Federal Highway Research Institute (BASt) meet the complex requirements of traffic and civil engineering for restoration and protection of bridge constructions and tunnels. Sophisticated silo technology for injection-moulding applications ensures efficient, cost-effective work procedures on the construction site. Innovative carbon-fibre composites - approved by the building authorities - enable the load-bearing capacity of building elements to be subsequently increased.

Energy

Power stations, cooling towers or dams must withstand extreme stresses. Their construction requires suitable systems for surface area protection from the very beginning. Only measures with a long-term impact will meet the high requirements for restoring vulnerable building substance in facilities with different classes of old concrete.

Nature and resources

The refurbishment of facilities in waste and water management is a special challenge. Particularly concrete constructions in wastewater treatment plants are exposed to extraordinary effects such as frost-thawing agents, carbonation, or biogenic sulphuric acid corrosion. Many years of experience and special know-how as well as products for stresses of the exposure classes XA1-XA3 or XBSK achieve optimum quality, economic efficiency, and environmental protection.

Property management

Product and system solutions for the protection as well as the restoration of concrete construction components at industrial, administrative, and residential buildings as well as multi-storey car parks are characterised by high economic efficiency with the greatest possible safety, while also fulfilling the obligations of the Guidelines of Concrete Repair of the German Committee for Reinforced Concrete (DAfStb).

Floor coatings

A wide variety of requirements – a wide variety of solutions

StoCretec offers excellent solutions for the areas of application of industry, trade and public facilities, parking decks, clean rooms, as well as balconies. They all have in common that they withstand both light and heavy stresses, offer chemical resistance, are visually attractive, and are physiologically harmless. The requirement profile is broadened further by legal obligations relating to water conservation, slip resistance, or electrostatic discharge capability, for example.

Solutions offering a well-balanced combination of functionality, economic efficiency, and application pay off for planners, building owners, investors, and tradesmen alike. StoCretec products and systems are tailored perfectly to the most diverse areas of application.





Industry

The use of industrial flooring is versatile - the requirements for the coating thus differ accordingly. StoCretec coating systems are seamless, liquid-tight, and, depending on the application, compatible with paint, disinfected, and resistant to chemical substances. They withstand the vast majority of extraordinary thermal stresses as well as mechanical effects from transport vehicles. Dissipative coatings always meet the most current ESD standards.

Trade and public facilities

StoCretec floor coatings with exciting visual possibilities for libraries, retail, or hotels can be installed economically and reduce impact noise. The products, which have been tested by the German Federal Environment Agency, keep room air free from harmful substances. Coatings based on polyurethane or water-based epoxy resins are TÜV-certified and meet the test criteria for VOC emissions in accordance with the assessment scheme of the Committee for Health-Related Evaluation of Building Products (AgBB).

Parking decks

Highly developed coatings for floor slabs, walking areas, open and tween decks, or ramps of multi-storey car parks and underground car parks come from StoCretec. An optimally tailored solution is developed in accordance with the location, condition, and stress on the surfaces.

Clean rooms

Clean conditions are more and more important for production in the semiconductor and optical industry or in the medical and biotechnology industry, in order to prevent high reject rates resulting from microparticles in the room air. As "Industrial Alliance Members" in the Cleanroom Suitable Materials (CSM) alliance of the Fraunhofer Institute in Stuttgart, StoCretec and Sto SE & Co. KGaA develop precisely coordinated clean room coatings for floors, walls, and ceilings.

Balconies

Balconies are particularly vulnerable to weathering influences and extremely stressed by daily use. High-quality floor coating systems from StoCretec keep balconies in good working order on a lasting basis and are characterised by attractive design possibilities.

Everything from one source

Innovations and services for building with conscience

Progress through innovation

StoCretec consistently uses the high potential of their own development and research, resulting in new technologies, innovative products, and superior systems. For example, FRP laminates or mesh: the safe and economical composite materials made of carbon fibre composite replace the conventional methods for reinforcing load-bearing structures.

For the sake of the environment: the advanced water-based coating products are odourless, solvent- and plasticiser-free and ensure a pleasant climate during processing and later use. They are approved by the TÜV and also meet the test criteria for VOC emissions in common rooms in accordance with the Committee for Health-Related Evaluation of Building Products (AgBB).





Support from the very beginning

Requests are answered quickly, in detail and on time: the competent StoCretec team is available as central contact persons for all questions dealing with StoCretec product systems for concrete protection, concrete restoration, and floor coating. Experienced project managers, system consultants, and technical advisors professionally support the building owners, planners, and investors in all phases of a project with individual support measures. Together with their partners in construction, this team develops precisely tailored and targeted solutions. The comprehensive service extends from timely advice on site, to laying sample surface areas at the project and the demonstration of products, up to training at the construction site.

These reliable services are based on decades of experience and technical competence. Regular further training ensures that technical knowledge is always up to date.

And: the dense network of advisors guarantees that there is always a StoCretec employee in the immediate vicinity who is happy to help.



Tenders service

Many years of experience in project support pays off: continuously updated StoCretec text blocks for tender specifications are available to planners for creating technically flawless specifications. It does not get any simpler: download at www.stocretec.de or www.ausschreiben.de.

Online service

Up-to-date information on StoCretec services is available on the Internet at www.stocretec.de. Comprehensive information on the product and service portfolio can be called up here quickly and conveniently around the clock, whether a tender specification, technical data sheet or brochure.

Seminars and training events

Knowledge brings success: the comprehensive StoCretec further training program with informative seminars, regular training events, and user-related specialist conferences is highly valued by our partners. StoCretec thus offers maximum benefit to tradesmen, planners, and investors, since all topics are communicated in a practical manner.



Current documentation

Detailed documentation on systems and products gives a current overview of the large StoCretec range of products. Indispensable at the construction site: the manual "Technical Data Sheets".

Perfect down to the last detail

Additional services for more efficiency and success

Sample service

The original makes the decision easier: the StoCretec sample service allows the optimum evaluation of the appearance and composition of the selected products with specific samples – whether in a standard version or for a particular project.



Silo and machinery equipment

Increasingly narrow cost targets and tight deadlines require state-of-the-art processing technologies. As a result of precisely matched, reliable materials handling and application technology, Sto silo and machinery equipment contributes to considerably shorter setup and processing times, to safety and quality in execution, and not least to a considerable reduction in packaging waste – and thus to noticeably lower costs. The best prerequisites for higher productivity and added value.



StoDesign

Colours shape the character of constructions. The colour design is correspondingly important: a dynamic process with many variables, whose combination requires a high degree of experience and sense of responsibility. StoDesign concentrates on the aesthetic aspects of construction and develops individual, creative colour concepts.



More than the sum of its parts

StoCretec and the power of the Sto Group

All competence in one group

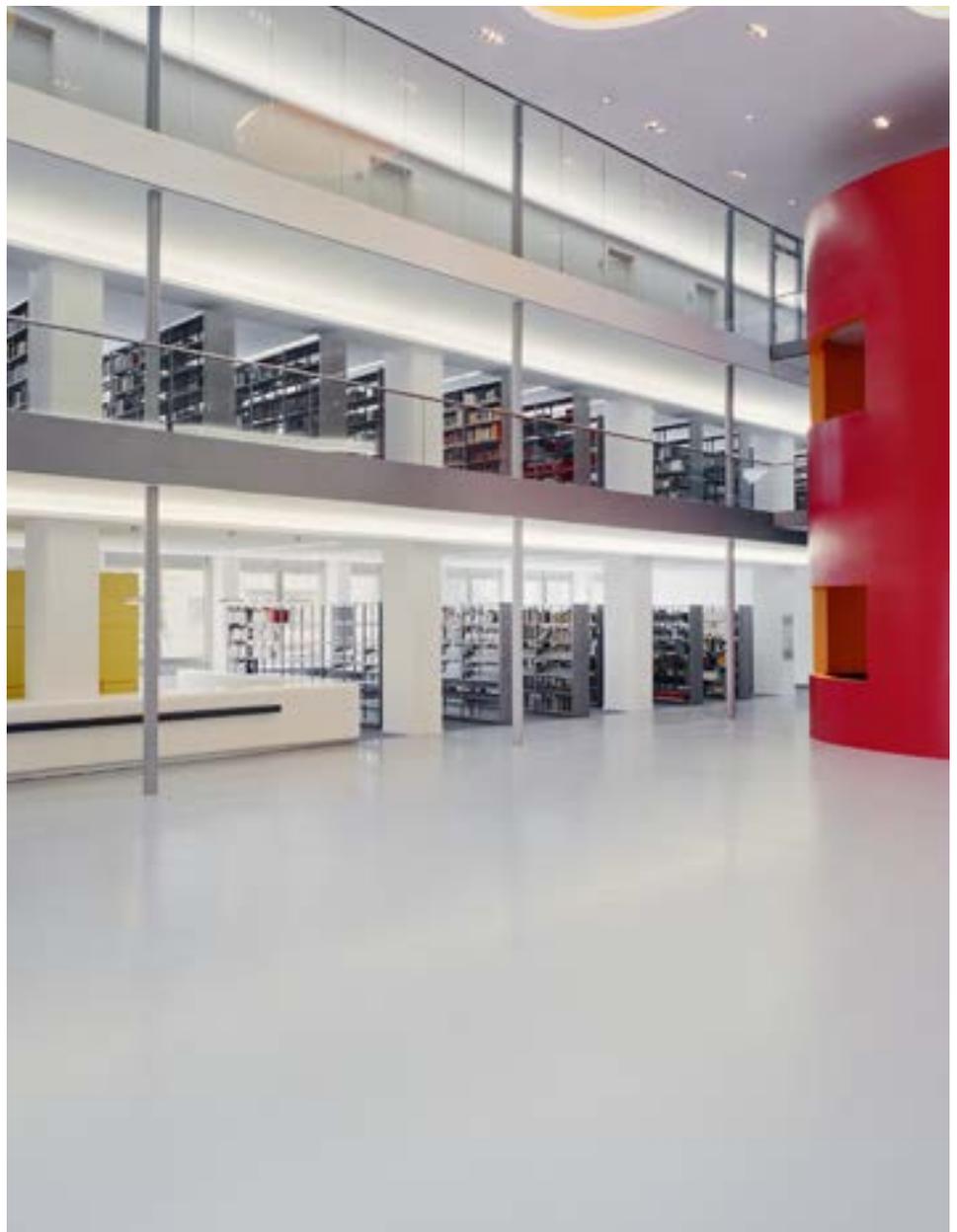
Each construction project requires specific technical, aesthetic, and application-oriented solutions. As a subsidiary of the globally active Sto SE & Co. KGaA, StoCretec GmbH uses an unsurpassed competence network for national and international projects. The presence in a wide variety of regions of this world allows fast access to a wide pool of experience and knowledge at all times. With their highly specialised subsidiaries, Sto SE & Co. KGaA provides perfectly tailored and expert answers to all individual requirements.

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External wall insulation systems, facade coatings, interior coatings, creative coatings, lacquers, glazes, tools

StoCretec

Concrete restoration, concrete protection, floor coatings





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