



**Above:** Gas entry pieces and above them a free-standing Steuler Dome, a grid dome made of acid-resistant ceramic material

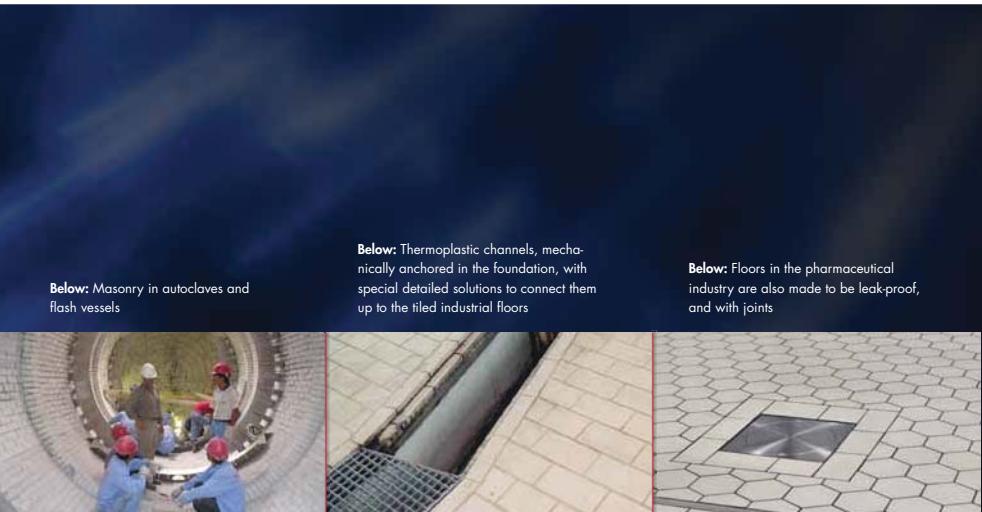


**Above:** Reactors lined with ceramic wear-and-tear protection

STEULER-KCH possesses a comprehensive product portfolio for membranes, cements and brick materials that meet all the demands for masonry. STEULER-KCH is thus your experienced partner for such masonry work as that needed for pickling plants, regeneration plants, tanks, flue gas piping, reactors, venturi scrubbers, autoclaves or absorption towers.

With our practical experience and the know-how of our innovative construction department, we can advise you on choosing the lining system that will best suit the process you are carrying out. Our vast selection of reliable materials enables you to find the system solution that fits each application. As a specialist for masonry, STEULER-KCH has acid-resistant and refractory, as well as cements from our own production, available for use at high temperatures or in special zones, such as autoclaves or pressurized tanks, and can take over complete installation.

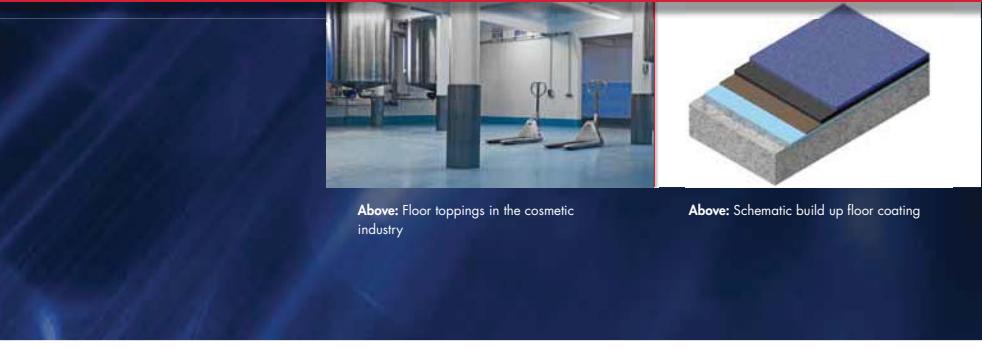
- | Membranes based on polyurethane, epoxy resin, unsaturated polyester resin, vinyl ester resin, resin, rubber linings and thermoplastics
- | Norm brick, shaped brick and special sizes in a variety of grades (acid-resistant ceramic/graphite and carbon brick/refractory materials)
- | Artificial resin cement based on phenol, unsaturated polyester and vinyl ester resin as well as a variety of potassium water glass mortars
- | A variety of artificial resins based on polyurethane, epoxy resin, vinyl ester resin, unsaturated polyester resin and resin are trowel-applied, poured, sprinkled and applied as laminate linings



**Below:** Masonry in autoclaves and flash vessels

**Below:** Floors in the pharmaceutical industry are also made to be leak-proof, and with joints

## STEULER-KCH Surface Protection Systems



**Above:** Floor toppings in the cosmetic industry

**Above:** Schematic build up floor coating

Flooring and acid-resistant tile from STEULER-KCH protects the concrete substrate from corrosive destruction, prevents chemicals and toxic materials from penetrating it and contributes to maintaining the value of your plant. Solutions tried and proven in practice for expansion joints, channel connections and channel making, as well as the sealing details for foundation sockets and hall structures complete the vast array of flooring systems. A large number of our flooring systems can be applied in a variety of RAL tones and in a high-quality look by sprinkling chips or coloured sand onto the material. Special grades for the food processing and pharmaceuticals industries are available as are electrically conductive systems for the electronics and other industries.

### Linings with the general building and construction permit from the German Institute for Building Technologies, DIBt

From its vast range of materials, STEULER-KCH can select the most technically effective and most economically sensible lining system. We back you up in your project from planning, approval, material selection right through to acceptance and commissioning. And furthermore, many of our systems even meet such further demands as anti-skid surfaces, ability to support wheeled traffic or conductivity. As a specialist operation recognized in accordance with the German Water management Act, WHG, we are aware of our responsibility for the proper and professional installation by our own trained specialist installers.



- I Grades of rubber linings for steel and concrete structures based on rubber, butyl (IIR), bromobutyl (BIR), chlorobutyl (CIR), chloroprene (CR), hypalon (CSM), natural rubber (NR) and special grades

- I Self-vulcanising or pre-vulcanised, hot-water grades

- I Bridges cracks and is an elastic, testable membrane with defined thickness

- I High-performance trowel-applied coating with fillers that determine its properties, for use against harsh chemical and mechanical attacks, based on vinylester resin, epoxy resin and resin



Right: Spray-on polyurethane coating in a processing tank



Above: Rubber-lined area of a pure gas channel



Above: Rubber-lined tank in phosphoric acid production

## STEULER-KCH Surface Protection Systems

- I Spray-on coatings based on polyurethane, vinylester, unsaturated polyester resin and epoxy resin with special flake fillers to achieve high diffusion resistance, special vinylester resin coatings with resistance to high temperatures as well as epoxy resin coatings with approval for use with drinking water



Above: Supporting structures and floor surfaces beneath the electrolysis cells are reliably protected with a polyurethane coating.



Above: Droplet separator in a coated scrubber nozzle

STEULER-KCH rubber linings are used for reasons of corrosion technology but also as a result of efforts to keep the operational costs of a plant low. The criteria for choosing them are chemical, temperature, and abrasion resistance as well as the size and geometry of the structure to be protected. Such further demands as resistance to vacuum, ability to decontaminate, a high level of resistance to diffusion and crack-bridging capabilities in concrete structures are just as feasible to include as special chemical resistance values.

STEULER-KCH rubber linings are widely used in a variety of areas such as concrete trenches, concrete tanks, pressurised and vacuum equipment, pickling tanks, Venturi scrubbers, processing and storage tanks. Besides a variety of soft rubber linings, we also offer hard rubber linings with special resistance properties. Our rubber linings are often used as membranes under masonry. STEULER-KCH delivers and carries out the installation work.

Whether in new construction or the renovation of existing plant and equipment, our objective is to permanently protect storage tanks, drinking water tanks, pipes, scrubbers, flue gas channels, basins and combustion equipment in order to minimize production downtimes and maintenance work. For such purposes, a huge number of tried-and-tested and innovative lining system are available to select from, all of them resistant to the most harsh chemical, mechanical and thermal conditions.

In plants with processing technology, linings are exposed to a myriad of corrosive conditions that they have to cope

with in every aspect. To achieve reliable and durable corrosion protection, STEULER-KCH also develops, in co-operation with its clients, customised solutions for specific requirements and processing technologies.

Rapid installation times and brief curing times see to it that as little production time as possible is lost in plants. Our own expert installers and supervisors assure that innovative application technologies are also used, guaranteeing a quick, cost-effective and high-quality execution of your project.