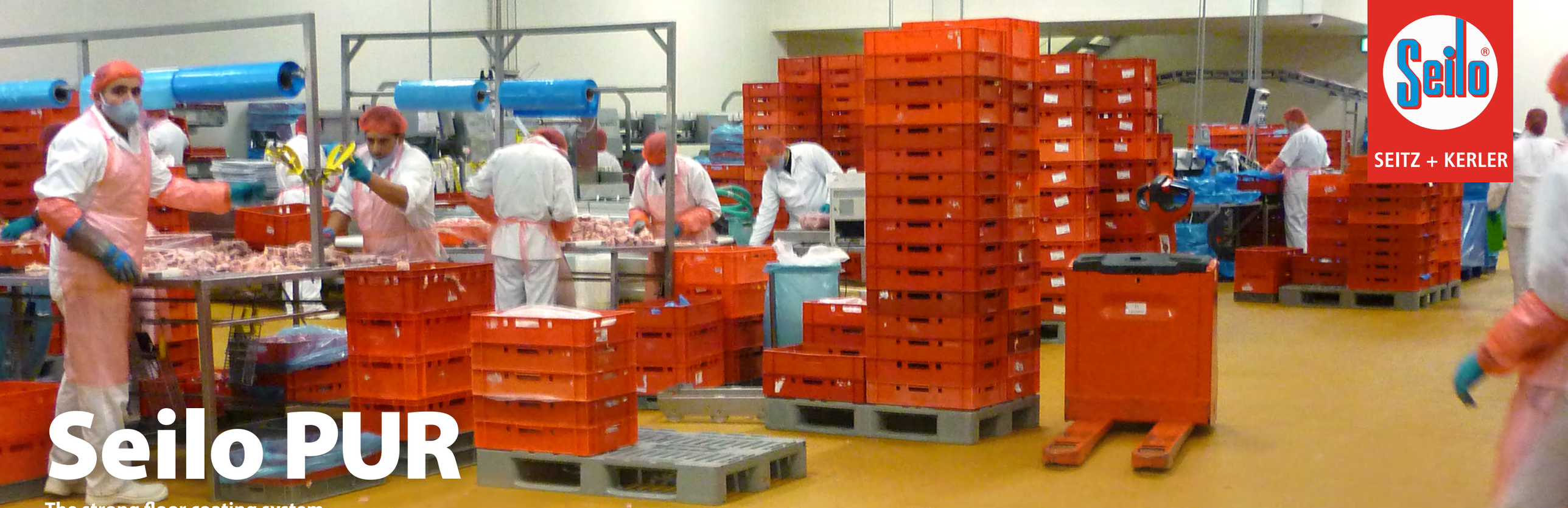
SEITZ + KERLER

For more than 60 years

Seilo PUR

The strong floor coating system for highest thermal and chemical stress

> 60 Jahre SEILO. DISTRIBUTION AND INSTALLATION OF INDUSTRIAL FLOORS.



Seilo PUR

The strong floor coating system for highest thermal and chemical stress

Seilo PUR polyurethane concrete floors were specially developed for industrial floor surfaces, in which the highest demands are placed on chemical and mechanical resistance. Especially with simultaneous high thermal stress the Seilo PUR flooring systems prove lasting functionality. The special areas of application for Seilo PUR polyurethane concrete floors are predominantly production areas of the food industry as well as the chemical industry. Also included are highly mechanically stressed surfaces and areas with lower thermal requirements such as packaging, loading and shipping areas of almost all industrial sectors.

PROCESSING

Seilo PUR polyurethane concrete floors are 3-component hybrid systems, which consist of polymer-synthetic, liquid binders and selected cementitious reaction and filler combinations.

Seilo PUR polyurethane concrete floors thus combine the technical properties of the hybrid system components to extremely resistant floor systems:

- Very high mechanical load capacity
- Very good chemical resistance
- Very high temperature resistance from -40°C to +120°C
- tough and impact-resistant surface
- tested anti-slip settings in accordance with BGR 181 (formerly ZH1/571) and DIN 51130

Seilo PUR polyurethane concrete floors are durable non-slip - even on wet surfaces - and completely impermeable to water and insensitive to cold and heat. The coverings are resistant to a large number of acids and alkalis as well as against blood, fats, oils and salts, which are used in the food industry.

LOADABILITY

Due to their enormous compressive strength and resistance to abrasion, Seilo PUR polyurethane concrete floors are ideal for areas with very high traffic loads from fork lift trucks, lifting carts and small-tired vehicles.

HYGIENE

Seilo PUR polyurethane concrete floors fulfil all current requirements, EC and US safety and hygiene regulations of the food processing market. Excellent cleanability make Seilo PUR polyurethane concrete floors robust and durable, but absolutely hygienic flooring for all production areas. Due to the non-porous closed surface, Seilo PUR polyurethane concrete floors prevent the attachment and reproduction of bacteria. Seilo PUR polyurethane concrete floors are free from harmful ingredients. For your safety, the Seilo PUR polyurethane concrete floors were tested in accordance with § 31 of the Food and feed law and their unconditional suitability (no Release of substances that are harmful to health, odour or would be questionable in terms of flavour) has been certified.

Independent testing institutes confirm the approval in the food industry according to regulation EC 852/2004 and thus comply with the International Food Standard (IFS). Seilo PUR is also enriched with polygiene and is therefore equipped antimicrobial. After cleaning recontamination of the surface is prevented over a long period of time. Seilo PUR is certified according to HACCP International and tested according to ISO 22196.

SAFETY

The surface of Seilo PUR polyurethane concrete floors can be adjusted accordingly to the respective application from slightly to very safe and slip-proof. By permanently maintaining the specified slip resistance Seilo PUR polyurethane concrete floors are particularly suitable for surfaces with heavy accumulation of grease, oil or water.

INSTALLATION

Seilo PUR polyurethane concrete floors are installed homogeneously and without joints, except for building joints provided for construction reasons.

In conjuction with installations, edges and walls, the Coating is applied in the form of rounded corners in accordance with standards. This ensures easy and safe cleaning and prevents the formation of dirty corners. Seilo PUR polyurethane concrete floors cure quickly (curing time at +20°C is only 12 hours) and are Swiftly fully loadable. Construction times can thus be shortened. And renovations be carried out with downtimes reduced to a minimum (loadable after 48 hours). When Seilo PUR polyurethane concrete floors are installed, no smell nuisance or tainting effects will occur, which allows renovations to be carried out without interruption of product operations.

Seilo PUR polyurethane concrete floors can be applied on many substrates, which are commonly used the construction industry and feature a solid structure. The daily installation performance of Seilo PUR polyurethane concrete flooring strongly depends on the selected coat thickness and the local conditions. Precise informations can be provided by our advisors after having inspected the construction projekt.

High chemical resistance

Hygienic and antimikrobiell

Extreme mechanical stress

High thermal load

Seilo PUR polyurethane concrete floors are available in the colours grey, yellow, green, red, cream, dark grey and orange.

Because you count on experience …

> 60 Jahre **SEILO® SEITZ + KERLER** Distribution and installation of industrial floors.

Seilo PUR

The strong floor coating system for highest thermal and chemical stress

Seilo® flooring systems are regularly tested by accredited testing institutes and fulfil all current requirements in the food industry

Polymer Institut · CSTB le futur en construction · CE · LGA · IFA Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung · AgBB GEPRÜFT

SYSTEMS AND AREAS OF APPLICATION

1. Seilo PUR SL
- a self-levelling matt industrial floor covering in thicknesses of 3-4 mm
- Ideally suited for surfaces with high chemical and medium mechanical loads, where the thermal load is a maximum of 60 °C

Seilo PUR SL is preferably used in:
- Shipping and loading areas
- Cold storage rooms
- Deep-freeze rooms
- Packaging areas
- wineries and much more.

2. Seilo PUR SL 5
- a self-levelling, matt industrial floor covering in thicknesses of 5 - 6 mm
- Ideally suited for surfaces subject to high chemical and mechanical stress, withstands thermal loads of up to 80°C

Seilo PUR SL 5 is preferably used in:
- butcher's shops, e.g. the filling plant
- Dairies
- Cheese dairies
- Fruit and vegetable processing
- Sour preserves and marinade production
- Poultry and fish processing

3. Seilo PUR HB
- an industrial mortar coating with high chemical, mechanical and thermal resistance (up to 120°C) with a matt surface, which is installed in thicknesses of 9 - 12 mm
- is also suitable for areas subject to particular thermal changes and stresses and withstands permanent exposure to boiling water with a coating thickness of 9 mm

Seilo PUR HB is preferably used in:
- Butcher's shops, e.g. smokehouses and cookery departments
- Slaughterhouses and cutting plants
- Frying and deep-frying lines
- Container washing
- Breweries, e.g. bottling and keg filling, rinsing and labelling systems
- Tank and container washes
- Biodiesel plants

4. Seilo PUR RT
- A particularly resilient variant of the Seilo PUR system, a chemically and mechanically, as well as permanently thermally (up to 120° C) highly resilient industrial mortar coating with a monolithic structure, which is installed in thicknesses of 9 - 12 mm
- is also used in the areas mentioned in the system described above, which are subject to extreme thermal changes and stresses
- is ideal for refurbishments where only short repair times are available and the slip resistance requirement is R 12 V 4.

Physical properties of Seilo PUR SL / HB
- Compressive strength: 60 N/mm²
- Bending tensile strength: 16 N/mm²
- Tensile strength: 7 N/mm²
- Adhesion to concrete: 2.7 N/mm²

Physical properties of Seilo PUR RT
- Compressive strength: 50 N/mm²
- Bending tensile strength: 15 N/mm²
- Tensile strength: 7 N/mm²
- Adhesion to concrete: 2.5 N/mm²
- Slip resistance BGR 181: R 12 V 4
- Temperature resistance at 4 mm layer thickness (SL): -40°C to +70°C
- Temperature resistance at 6 mm layer thickness (SL): -40°C to +80°C
- Temperature resistance at 9 mm layer thickness (HB/RT): -40°C to +120°C
- Temperature resistance with permanently flowing hot water: + 90° C (HB) + 100° C (RT)

Chemical resistance:
Seilo PUR SL / HB and RT are resistant to all acids and alkalis commonly used in the food industry, as well as to
- Nitric acid up to 50 %
- Hydrochloric acid up to 36 %
- Acetic acid up to 40 %
- Lactic acid up to 25 %
- Citric acid up to 60 %

Seilo PUR polyurethane concrete floors are absolutely resistant to blood, sugar, urine and grease. A fifth, special version of the resilient Seilo PUR polyurethane concrete systems is also available. This has been specially developed for areas where, in addition to chemical and mechanical requirements, there are special specifications for electrostatic dissipation.

5. Seilo PUR SL AS
- A self-levelling, matt industrial floor covering with a thickness of 2 - 3 mm that specifically dissipates electrical voltages
- Ideally suited for dry production areas with high chemical and mechanical stress, where the thermal load is a maximum of 70° C

Seilo PUR SL AS is preferably used in:
- Packaging areas
- Flavour preparation
- Powder production
- Lacquer bearings

Physical properties of Seilo PUR AS:
- Compressive strength: > 50 N/mm²
- Bending tensile strength: 20 N/mm²
- Tensile strength: 9 N/mm²
- Adhesion to concrete: > 2.7 N/mm²
- Temperature resistance: +70° C
- Dissipative capacity: 1 x 10^4 - 1 x 10^6

Seilo® SEITZ + KERLER

Distribution and installation in Germany, Austria, Switzerland and other countries.

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