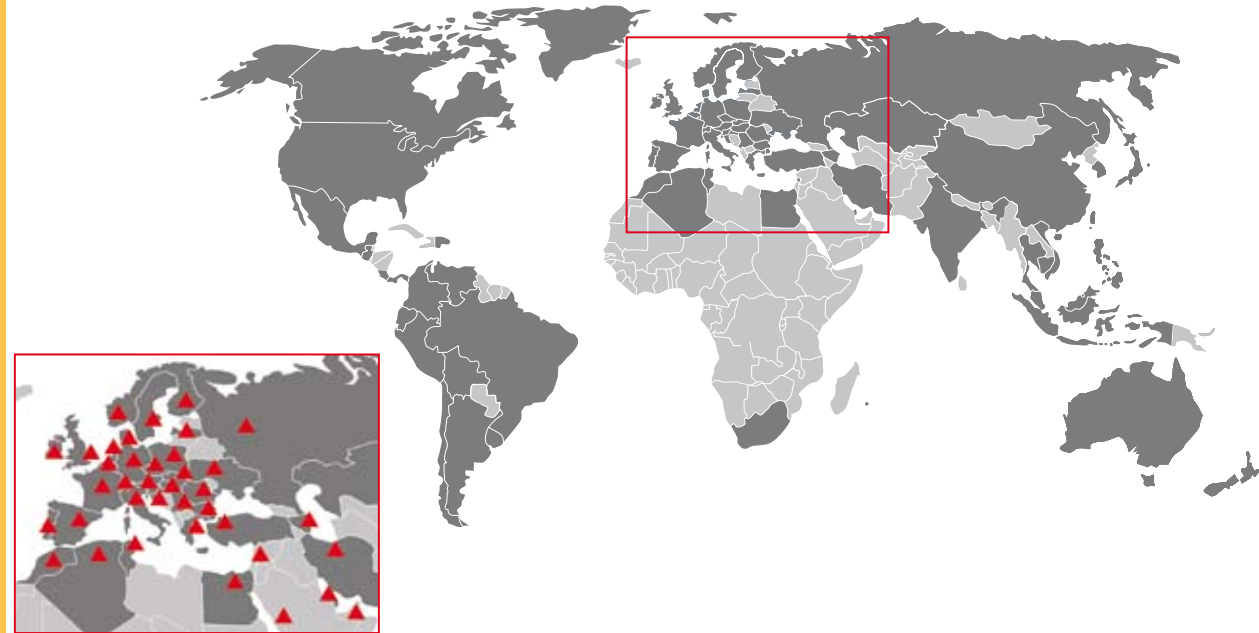


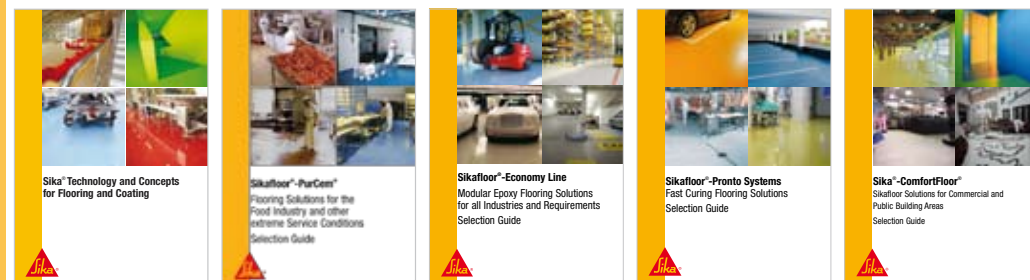


Sika – a Global Player in Speciality Chemicals for Construction and Industry



Sika is a globally active company in the speciality and construction chemicals business. It has subsidiary manufacturing, sales and technical support facilities in over 70 countries around the world. Sika is the global market and technology leader in waterproofing, sealing, bonding, dampening, strengthening and the protection of buildings and civil engineering structures. Sika has approx. 12'000 employees worldwide and is therefore ideally positioned to support the success of its customers.

Also Available from Sika



Sika Services AG
Business Unit Contractors
Speckstrasse 22
8330 Pfäffikon
Switzerland
Phone +41 58 436 23 80
Fax +41 58 436 23 77
www.sika.com

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheet prior to any use and processing.



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Sikafloor® and Sikagard® Flooring and Wall Coating Solutions for Cleanroom Environments Selection Guide

Sika® Flooring and Wall Coating Solutions for Cleanroom Environments



In recent years Sika has developed advanced new flooring and wall coating solutions for cleanroom environments. Manufacturing under cleanroom conditions, is increasingly becoming more widespread and demanding, with regards not only to VOC / AMC emissions (Volatile Organic Compounds / Airborne Molecular Contaminants), but also to particle emissions. The number of products which have to be produced and processed under cleanroom conditions is constantly growing, from electronics and automotive to food, pharmaceuticals and cosmetics. In many of these industries, cleanroom manufacturing plus a high degree of component cleanliness are now essential to achieve their desired product quality. **Sikafloor®-CR** and **Sikagard®-CR** ranges are the 'State of the Art' in products specifically developed for floor, wall and ceiling coatings in cleanroom environments.

Application Related Advantages

- Easy to apply with no restrictions compared to a standard epoxy application
- Flexibility in the system build up to serve individual requirements
- Very low odour

Individual Design Opportunities

- **Sikafloor®** and **Sikagard®** are suitable for:
 - All clean manufacturing facilities with a controlled level of contamination, such as minimum particle and VOC/AMC (Volatile Organic Compounds / Airborne Molecular Contaminants) emissions.
 - All manufacturing facilities where cleanroom product performance is demanded to ensure high standards of cleanliness, including those for semi-conductors, optical goods, electronics, foodstuffs, pharmaceuticals and in the automotive industry and hospitals.

Performance Related Advantages

- **Sikafloor®** and **Sikagard®** cleanroom suitable products have been tested to particle emissions, so that the different material pairings can be classified into cleanliness classes in accordance with the international standard ISO 14644-part 1.
- Furthermore, **Sikafloor®** and **Sikagard®** cleanroom suitable products have been specially designed and tested to meet the stringent outgassing requirements for cleanroom environments in accordance with the international standard ISO 14644-part 8.

Industrial Alliance Cleanroom Suitable Materials – CSM

The Fraunhofer IPA founded the Industrial Alliance CSM and organises the main work topics and coordinates the required research including the recording and analysis of data. The aim of founding the industrial alliance "Cleanroom Suitable Materials" was to form a sound scientific basis for assessing the cleanroom suitability of materials and for determining material selection criteria for clean applications.



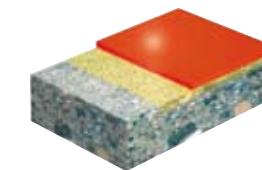
Test Bench "Material Inspec"





Flooring Systems

Smooth Ultra Low VOC Emission Screed
Sikafloor®-269 CR



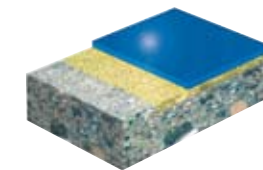
System Build-up:
Primer: **Sikafloor®-144/-161**
Wearing course: **Sikafloor®-269 CR**

A two part, total solid, ultra low-VOC / AMC emissions, coloured, epoxy binder for self-smoothing screed systems.

Total layer thickness: 2 – 3 mm



Smooth Low VOC Screed
Sikafloor®-266 CR



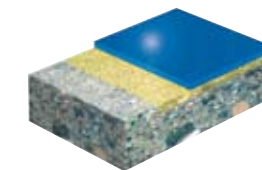
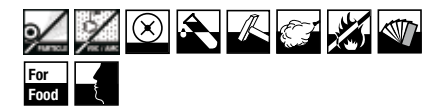
System Build-up:
Primer: **Sikafloor®-144/-161**
Wearing course: **Sikafloor®-266 CR**

A two part, total solid, low-emission, coloured, epoxy binder for self-smoothing screed systems.

Total layer thickness: 2 – 3 mm



Smooth Low VOC Screed
Sikafloor®-263 SL



System Build-up:
Primer: **Sikafloor®-144/-161**
Wearing course: **Sikafloor®-263 SL**

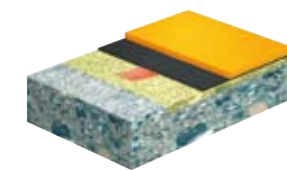
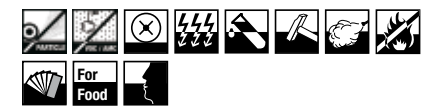
A two part, total solid, coloured, epoxy binder for self-smoothing screed systems.

Total layer thickness: 2 – 3 mm



Conductive Flooring Systems

Smooth Ultra Low VOC Conductive Screed
Sikafloor®-269 ECF CR



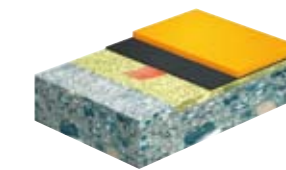
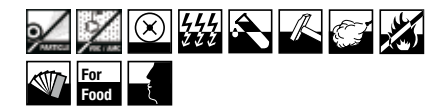
System Build-up:
Primer: **Sikafloor®-144/-161**
Conductive layer:
Sikafloor®-220 W Conductive
Wearing course: **Sikafloor®-269 ECF CR**

A two part, total solid, electrostatic conductive, ultra low emission, coloured, epoxy binder for self-smoothing screed systems.

Total layer thickness: ca. 2 mm



Smooth Low VOC Conductive Screed
Sikafloor®-266 ECF CR



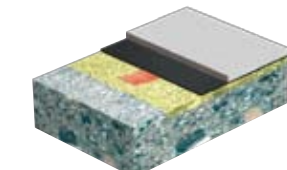
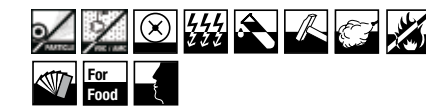
System Build-up:
Primer: **Sikafloor®-144/-161**
Conductive layer:
Sikafloor®-220 W Conductive
Wearing course: **Sikafloor®-266 ECF CR**

A two part, total solid, electro-static conductive, low emission, coloured, epoxy binder for self-smoothing screed systems.

Total layer thickness: ca. 2 mm



Smooth ESD Screed
Sikafloor®-235 ESD



System Build-up:
Primer: **Sikafloor®-144/-161**
Conductive layer:
Sikafloor®-220 W Conductive
Wearing course: **Sikafloor®-235 ESD**

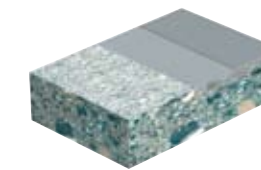
A two part, total solid, ESD, low emission, coloured, epoxy binder for self-smoothing screed systems.

Total layer thickness: ca. 2 mm



Floor and Wall Coating Systems

Coloured Roller Coating System
Sikagard®-264



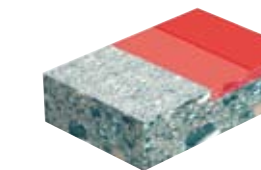
System Build-up:
Primer: **Sikafloor®-144/-161**
Roller coat: 1 x 2 **Sikafloor®-264**

A two part, total solid, coloured, epoxy roller coating.

Total layer thickness: 0.6 – 0.8 mm



Roller Coating System
Sikagard®-183 W CR



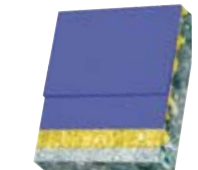
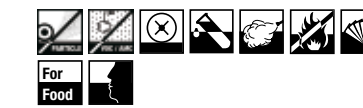
System Build-up as a Floor Coating:
Primer: **Sikagard®-183 W CR** + 5% Water
Roller coat: 1 x 2 **Sikagard®-183 W CR**

A coloured water dispersed epoxy resin based coating for floors and walls.

Total layer thickness: 0.3 – 0.5 mm



Roller Coating System
Sikagard®-183 W CR



System Build-up as a Wall Coating:
Primer/Porefiller:
Sikagard®-185 Primer/Porefiller
Wall coating: 1 x 2 **Sikagard®-183 W CR**

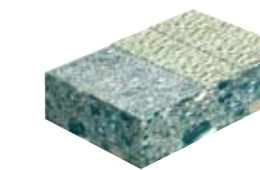
A coloured water dispersed epoxy resin based coating for floors and walls.

Total layer thickness: 0.3 – 0.5 mm



Textured Floor Coating System

Textured Low VOC Coating
Sikafloor®-266 CR Thixo



System Build-up:
Primer: **Sikafloor®-144/-161**
Textured roller coating:
Sikafloor®-266 CR+ Extender T

A two part, total solid, low-emission, coloured, epoxy binder for textured coating systems.

Total layer thickness: 0.6 – 0.8 mm



Project Related Requirements and the Functions of Flooring Systems

- Low particle emissions in accordance with the international cleanliness class ISO 14644-part 1.
- Low VOC / AMC (Volatile Organic Compounds / Airborne Molecular Contaminants) emissions in accordance with the international cleanliness class ISO 14644-part 8.
- Mechanical resistance is defined by type (transport load, type of tyres, contact area) and frequency of exposure.
- Chemical resistance according to the **Sikafloor®** Chemical Resistance Chart.
- Electrical conductivity is used to prevent electrical interference with sensitive equipment or avoid a build-up to static electricity, which could generate sparks and create a risk of fire or explosion.
- Suitable as a flooring system for the food industry. Please refer to the individual proof statement.
- Slip resistance is always a question of surface design. The specific environment defines the limits. Various finishes can be achieved. Please refer to the individual test certificate.
- Impact resistance is related to the specific conditions of each operation. Allowance should be made for high point loads.
- Permeability to liquids. Provides an impermeable seal protecting the concrete and the ground water from leakage of water and environmental pollutants.
- Fire-resistant. Please refer to the individual test report.
- Available in a range of Colours
- Total solids or solvent free systems with neutral odour and low VOC emissions should always be considered where appropriate, such as indoor / internal or closed area applications.

