

## PRODUCT DATA SHEET

# Sikagard®-453 W

High-quality, single-component wall coating for indoor use

### DESCRIPTION

Sikagard®-453 W is a single-component, aqueous, coloured coating material based on a modified acrylic resin.

### USES

Sikagard®-453 W may only be used by experienced professionals.

High-quality single-layer interior paint with high opacity. Ideal for wall and ceiling surfaces in areas that should be quickly reusable, such as offices, schools, kindergartens, department stores, restaurants, medical practices, hospitals, department stores, etc. .

### FEATURES

- High opacity
- Easy to apply
- Indoor air hygiene safe with TÜV certificate
- Low-emission
- Solvent-free and plasticizer-free
- Diffusion-open and abrasion-resistant
- Water-dilutable
- Free of fogging-active substances

### CERTIFICATES AND TEST REPORTS

Certified by TÜV Rheinland emission test

### PRODUCT INFORMATION

<b>Composition</b>	Polyvinylacetat dispersion	
<b>Packaging</b>	Pale with 15.0 l (= 22.8 kg)	
<b>Appearance and colour</b>	Standard colours: White, special colours can be supplied on request, depending on minimum order quantities.	
<b>Shelf life</b>	12 months from the day of production	
<b>Storage conditions</b>	Dry, cool but frost-free in original sealed pales	
<b>Density</b>	1.54 kg/l	DIN EN ISO 2811-1
<b>Product declaration</b>	Characteristic data according to DIN EN 13300	
	Wet abrasion class:	Class 1
	Contrast ratio:	Covering capacity class 1; with a yield of ca. 8 m <sup>2</sup> /l resp. 125 ml/m <sup>2</sup>
	Gloss:	Dull matt
	Maximum grain size:	Fine

The characteristic values given are average values. Due to the use of natural raw materials in our products, slight deviations may occur without affecting the product properties.

## TECHNICAL INFORMATION

Permeability to water vapour

sd value = 0.1 m

DIN EN ISO 7783

## APPLICATION INFORMATION

Mixing ratio

One-component

Ambient air temperature

At least. + 5°C during processing and during drying

Substrate temperature

At least. + 5°C during processing and during drying

Waiting time to overcoating

Overcoatable after 4 hours at +20°C and max. 65% humidity

Applied product ready for use

Fully dried after 4 days at +20°C and max. 65% humidity.

The above times are approx. information and may vary under alternative environmental conditions. At lower temperature and higher humidity, these times are extended

## SYSTEM INFORMATION

System

On low-contrast surfaces One AG Sikagard-453 W (undiluted) On high-contrast surfaces:

1. Step: Sikagard-453 W + max. 10% water
2. Step: Sikagard-453 W (undiluted)

Consumption on smooth, easy-absorbing substrates ca. 125 ml/m<sup>2</sup> = ca. 0.2 kg/m<sup>2</sup>

Yield according DIN EN 13300ca. 8 m<sup>2</sup>/l

Consumption is higher on rough and absorbent surfaces. The exact consumption values must be determined by means of test coatings

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## IMPORTANT CONSIDERATIONS

- If the material is diluted too much, the properties (e.g. hiding power, colour shade, resistance) may be impaired.
- Coat wet-on-wet to avoid build-up. When applying with a brush, blend the painted area well. After the last coat, roll the surface in one direction. After the last coat, roll the surface in one direction.
- Wash off paint splashes immediately with clean water.
- Allow sufficient drying time between coats.
- When touching up the surface, use material with the same consistency and batch number as well as the same tools and batch number and the same tools must be used.
- Depending on the property situation, repairs may be more or less noticeable on the surface. According to BFS data sheet no. 25, this is unavoidable.
- Due to the large number of possible substrates and other influencing factors, in some cases it is advisable to create a test surface before starting work.

## ECOLOGY, HEALTH AND SAFETY

### HAZARD WARNINGS

#### GISCODE: BSW20

This coding makes it possible to obtain further information on the service pages of BG Bau ([www.bgbau.de/gisbau](http://www.bgbau.de/gisbau)) as well as assistance on the creation of operating instructions ([www.wingis-online.de/wingisonline/](http://www.wingis-online.de/wingisonline/)). ??When handling hazardous substances, direct skin contact must be avoided at all costs! For the selection of suitable protective equipment, our information data sheets "General Instructions for Occupational Safety" (code 7510) and "General instructions for wearing protective gloves" (code 7511) are available under [www.sika.de](http://www.sika.de).

#### DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

The maximum VOC content permitted in EU Directive 2004/42 (product category IIA/a type wb) is 30 g/l when ready for use (limit 2010). The maximum content of Sikagard-453 W in the ready-to-use state is < 1 g/l VOC.

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## APPLICATION INSTRUCTIONS

Stir well before use. The material can be diluted to adjust the consistency.

Apply with a brush, roller or spray application.

### Roller application

For standard roller application, we recommend using an internal colour roller with a pile height of 12 mm. For the best possible surface result on smooth substrates, we recommend using a suitable paint roller for smooth surfaces. The risk of surface structure, roller marks and a shiny top can thus be reduced. To avoid build-up, the coating should be applied wet-on-wet. Spread the brush-coated areas well and then finally roll the surface in one direction.

### Spray application

Adjust viscosity for spraying. Note the information provided by the sprayer manufacturer.

For an even surface finish, we recommend rolling the surface.

Airless spraying: Spray angle: 50°; nozzle: 0.018 - 0.021'; spray pressure: 120-180 bar.

### SUBSTRATE QUALITY / PRE-TREATMENT

Suitable are stable, solid, dry and clean substrates that are free from materials that could impair bonding (efflorescence, sintered layers, release agents, corrosion-promoting components) and which have been professionally prepared. We recommend the VOB, DIN 18363, part C para. 3. No primer is required for solid, stable, slightly absorbent interior substrates. Unstable coatings must be removed.

Substrate	Pre-treatment / Condition	Primer
PG II, III acc. DIN 18550 / CS II, CS III, CS IV acc. DIN EN 998-1 (note BFS-Merkblatt 10)	Firm, stable, slightly absorbent  Coarsely porous, sandy, highly and differently absorbent surfaces	No priming  Sikagard®-552 W
Plasterboard (note BFS-Merkblatt 12)	sand down filler ridges	Sikagard®-552 W
Concrete	Remove release agent residues and floury, sanding residues	Sikagard®-552 W or Sikagard®-453 W (diluted)
Sand-lime brick	Ensure sufficient dryness for new brickwork	Sikagard®-552 W or Sikagard®-453 W (diluted)

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## CLEANING OF EQUIPMENT

Sofort nach Gebrauch Pinsel oder Walze gründlich austreichen bzw. ausrollen. Anschließend mit Wasser reinigen, evtl. unter Zusatz von Spülmittel. Sprüheräte ebenfalls einfach mit Wasser reinigen.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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