



## PRODUCT DATA SHEET

# Sikagard® Duroplast PS

Adhesion and appearance improving primer and sealer for Sikagard® Duroplast® wall coatings



### PRODUCT DESCRIPTION

Sikagard® Duroplast PS is a single part, high quality acrylic resin used to prime and effectively seal properly prepared walls and ceilings. It serves to equalize the absorption of porous surfaces, provide an even surface, and improve both the adhesion and appearance of high quality Sikagard® Duroplast finishes.

### WHERE TO USE

Sikagard® Duroplast PS may only be used by experienced professionals.

- Interior applications, in-service dry area walls and ceilings constructed from plaster, gypsum board and concrete
- On porous or dense surfaces which might not promote optimum adhesion of finishes
- On walls and ceilings with variable absorption which might excessively absorb coatings
- Use in new construction and maintenance work

### CHARACTERISTICS / ADVANTAGES

- Easy to prepare and apply
- Low odour and low VOC
- Quick drying - 2 hour over-coat time
- Excellent bond and adhesion promotion
- Good hiding capacity
- Suitable for hardened, dry, filling and patching compounds
- Seals in fibres on gypsum board
- Reduces and equalizes absorbency of surfaces
- Provides a more even surface to coat
- Clean-up with water
- Fully compatible with Sikagard® Duroplast® finishes

### ENVIRONMENTAL INFORMATION

- Contributes towards satisfying LEED® v4 EQ Credit - Low-Emitting Materials
- Contributes towards satisfying LEED®v4 MR Credit - Building Product Disclosure and Optimization - Material Ingredients (Option 1)
- Contributes towards satisfying LEED®v4 MR Credit - Building Product Disclosure and Optimization - Sourcing of Raw Materials (Option 1: Raw material source and extraction reporting)
- Contributes towards satisfying LEED®v4 MR Credit: PBT Source Reduction—Lead, Cadmium, and Copper

### APPROVALS / CERTIFICATES

Meets the requirements of CFIA and USDA for use in food plants.

## PRODUCT INFORMATION

CSC MasterFormat®	09 96 00   HIGH PERFORMANCE COATINGS
Packaging	18.9 L (5 US gal.) pail
Shelf Life	1 year in original unopened container.
Storage Conditions	Store dry at 5 °C to 32 °C (41 °F to 89 °F). Protect from freezing. If frozen, discard. Precondition material for at least 24 hours between 18 °C to 30 °C (65 °F to 86 °F) before use.
Appearance / Colour	White
Solid content by weight	~55 %
Solid content by volume	~36 %
Volatile organic compound (VOC) content	< 25 g/L

## APPLICATION INFORMATION

Consumption	~7.9 m <sup>2</sup> /L (~321 ft <sup>2</sup> /US gal.) at ~5 mil (w.f.t.) / ~2 mil (d.f.t.) Typically one (1) coat is required, though on higher absorbency substrates a second coat may be required. Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Test areas are recommended to establish correct coverage rates.
Ambient Air Temperature	Minimum 10 °C (50 °F) Maximum 30 °C (86 °F). Ambient Air Relative Humidity: Maximum 85 % (during application & cure). <b>NOTE:</b> Application attempted at low ambient air or substrate temperatures and/or under high humidity conditions, will result in a decrease in product workability and slower cure rates.
Dew Point	Beware of condensation! The substrate must be at least 3 °C (5 °F) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the finish. Be aware that the substrate temperature may be lower than the ambient air temperature.
Substrate Temperature	Minimum 10 °C (50 °F) Maximum 30 °C (86 °F).
Substrate Moisture Content	Maximum moisture content of all concrete substrates must be ≤ 4 % by mass (pbw - part by weight) when measured with a calibrated moisture meter for concrete (Tramex CME/CMExpert). Masonry surfaces, gypsum board and plaster must be below 85 (green zone on the reference scale) when measured with a calibrated electronic moisture meter (Delmhorst Model BD-10). Minimum age of concrete and masonry surfaces prior to application: 28 days (depending on curing and drying conditions). Minimum age of SikaTop® or Sika MonoTop® mortar prior to application: three (3) days, depending on curing and drying conditions. Moisture content must be ≤ 4 % by mass (pbw - parts by weight) when measured with a calibrated moisture meter for concrete (Tramex CME/CMExpert).

## Curing Time

Touch dry	~1 hour to ~2 hours
Recoat time	~2 hours to ~4 hours
Overcoat time	~24 hours (Sikagard® Duroplast® 100N / Sikagard® Duroplast®150N)
Full cure	~5 days

Drying times will vary according to ambient air and substrate temperature and relative humidity.

Protect from dampness, condensation and water contact during the initial 24 hour cure period.

## BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

## LIMITATIONS

- Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise / fall, Relative Humidity increase / decrease, etc.)
- Do not apply onto porous surfaces where moisture vapour transmission will occur during application.
- Direct-fired gas or kerosene heaters produce byproducts that can have adverse effects on the curing primer. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.
- Apply product to dry, clean, properly cured and prepared surfaces in areas where dust is no longer generated by construction activities, such that airborne particles will not reduce bond of coating or adhere to the surface, affecting the quality of subsequently applied finishes.
- When over-coating existing coatings, compatibility and adhesion testing is required and existing coating must be acknowledged as determining the adhesion and performance of all subsequently applied materials.
- This product is not designed nor intended for negative side waterproofing.
- Not designed to function as an aesthetic treatment or final coating; must be overcoated with a finish.
- Not suitable for use as a traffic bearing surface or as a roofing material.

## ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

Substrates must be sound, clean and dry. Remove sand, dust, dirt, oil, grease, wax, silicone, glue and all other contaminants that may affect the bond of Sikagard® Duroplast PS.

Existing coatings must be removed unless extensive testing confirms compatibility of materials and it is accepted that the existing paint or high performance coating will determine the overall performance of the newly applied coating.

### Gypsum Board:

To obtain a uniform finish the joint filler compound must be properly installed, finished and fully cured. Small defect, such as pinholes, ridges and fibre-lift, can become very apparent after finishing coats are applied. Some porous joint filler compounds may require an additional application of Sikagard® Duroplast PS to seal and prime the overall surface to a uniform appearance. Gypsum board manufactured with recycled paper facings, may require additional preparation such as careful sanding and an additional coat of Sikagard® Duroplast PS primer/sealer to eliminate high suction spots.

### Concrete Vertical Surfaces:

New concrete shall be allowed to age for a minimum of 28 days prior to application of the primer and sealer. Formed concrete surfaces must have all traces of form release agent, bond breaker, curing compounds, laitance, oxidation powder and all other foreign matter removed from the surface. Prepare the concrete to produce an open textured, sandpaper-like finish and uniform surface (ICRI / CSP 1 - 2). Bug holes, cracks or irregularities should be filled and levelled with SikaTop® or Sika MonoTop® mortars as appropriate. Consult Sika

Canada for recommendations.

## MIXING

Do not hand mix Sikagard® Duroplast® resin materials: mechanical mix only.

Stir material thoroughly to disperse all solids and liquids, using a slow speed (300 - 450 rpm) drill and Exomixer® or Jiffy type mixing paddle (recommended model) suited to the volume of the mixing container to minimize air entrapment. Should soft settlement have taken place, ensure that solids are dispersed and evenly distributed into the material. The primer/sealer is supplied ready for use and must not be diluted.

Stir for 3 to 5 minutes until a uniform consistency and colour are achieved. It is important to keep the material fully blended; any breaks in application should be followed by re-stirring of the material to again produce a uniform consistency.

## APPLICATION

Sikagard® Duroplast PS can be applied by brush, roller or spray equipment, whichever is the most suitable to the surfaces to be primed and sealed or site conditions and limitations. For spray applications, contact spray equipment specialists to determine suitable equipment and for application advise.

If sprayed, the material must be back rolled/brushed to ensure good penetration of primer into the substrate.

Sikagard® Duroplast PS must be applied in a workmanlike manner using skilled and trade qualified applicators. The film thicknesses stated must be produced and complete coverage achieved.

Following cure of primer coats, sand off any rough spots and visible defects with a fine sandpaper (120 - 220 grit), then vacuum and wipe surface to remove all residual traces of sanding dust.

## CLEAN UP

Clean tools and brushes with warm water and where required, detergent. Once hardened, product can only be removed mechanically.

## 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 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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### Product Data Sheet

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