

PRODUCT DATA SHEET

SikaWall®-485 MP

Inorganic, potassium silicate-based, mineral paint

PRODUCT DESCRIPTION

SikaWall®-485 MP is a traditional inorganic, potassium silicate-based mineral paint containing a water-repellent, inorganic pigments and mineral fillers. It adheres by creating a chemical bond with the mineral substrate, offering a great durability, high water vapour permeability and superior water repellency properties. Ready-to-apply, for exterior and interior use.

WHERE TO USE

- SikaWall®-485 MP is a 2-to-3-layer system that can be used on all absorbent mineral surfaces. Due to its characteristics, it is particularly suitable for traditional environments, which usually have four seasons. The fields of application include old historic and new surfaces.
- Absorbent surfaces include, but are not limited to: concrete, brick, most stones, historic masonry, mortars, lime plasters, stucco, CMU, GFRC, cement boards and plasters.

CHARACTERISTICS / ADVANTAGES

- Does not flake due to the bonding with the substrate by silicification providing thereby an outstanding durability
- Extremely vapour-permeable – allows the system to breathe
- Easy to apply & excellent covering power
- All components are UV stable
- Non-flammable - Does not release toxic gases or smoke in case of fire
- Water repellent - excellent resistance to weathering, acid rain, and industrial pollutants
- Antistatic - surfaces stay clean longer
- Resistant to fungal growth and algae
- Low VOC content

PRODUCT INFORMATION

Composition / Manufacturing	Organic Content: < 5 %
Packaging	15.14 L (4 US gal) (packaged in a 5 US gal pail)
Appearance / Colour	Liquid / White and other colours available. Refer to SikaWall® colour selection chart. Custom colour-matching available.
Shelf Life	12 months in its original, unopened pail.
Storage Conditions	Store protected, in dry conditions, at temperatures between 5 °C to 30 °C. Do not expose to direct sunlight and heat. Close the opened packaging well. If there is paint left over, the remaining amount should be transferred into

smaller containers to keep the air content as low as possible. Protect from freezing. If the product has frozen, do not use.

Density	~ 1.44 g/cm ³
pH-Value	~ 11
Volatile organic compound (VOC) content	White or tinted < 1 g/L
CSC MasterFormat®	09 97 23 Concrete and Masonry Coatings
Resistance to Fire	Surface burning characteristics ASTM E84 / Class A: Flame Spread Index = 0 / Smoke Developed Index = 0 UL 723 / Class A: Flame Spread Index = 0 / Smoke Developed Index = 0
Resistance to Alkalinity	ASTM D1308 / Passes - no visible change after 24hs
Resistance to UV Exposure	ASTM G154 / UV A - 2000 hours / Pass - No yellowing, cracking or delamination ASTM 4587 / UV B - 500 hours / Pass - No yellowing, cracking or delamination
Microbiological Resistance	ASTM D3273 / Passes—No fungal growth ISO 22196:2011 / Passes—No antibacterial growth ASTM G-21-15 / Passes—No fungal growth
Permeability to Water Vapour	ASTM E96 / 87,5 perm
Water Vapour Transmission	ASTM E96 / 30.72 g/h*m ²
Gloss Level	ASTM D523 / Matte 0.55
Chloride Ion Diffusion Resistance	Permeability Class: 514 Coulombs / Very Low
Resistance to wind-driven rain	ASTM E514 / Pass
Light fastness of colour pigments	ASTM 4587 / UVB 500hs / Pass - No yellowing, cracking or delamination
Consumption	Approximately 112 m ² to 130 m ² (1205 ft ² to 1400 ft ²) per 15.14 L (4 US gal) per coat of SikaWall®-485 MP. When SikaWall®-485 MP is diluted with SikaWall®-485 MP Dilution at a ratio of 10% by volume, approximately 128 m ² to 148 m ² (1375 ft ² to 1595 ft ²) per 15.14 L (4 US gal) per coat. The consumption indicated is a reference value on a smooth surface. Exact values can only be determined by painting test areas on the structure to be coated using tools and techniques that will be used for the final application. Refer to the relevant Product Data Sheet (PDS) for each SikaWall®-485 products for more consumption references.
Product Temperature	Minimum 5 °C / Maximum 30 °C
Ambient Air Temperature	Minimum 5 °C / Maximum 30 °C
Relative Air Humidity	Maximum relative humidity 80 %
Substrate Temperature	Minimum 5 °C / Maximum 30 °C
Pot Life	12 months in tightly closed container.

Product Data Sheet
SikaWall®-485 MP
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Curing Time	The product will be dry to the touch within 1 to 3 hours. After application the surface must be protected from strong winds and sun until the product is dry (3-6 hours), it must also be protected from rain until the end of the cure which lasts between 12 at 36 hours depending on temperature and humidity.
Waiting Time / Overcoating	It is necessary to calculate a minimum of twelve (12) hours between each coat. Before the last application, it is necessary to allow a 12 to 36 hours.

SYSTEMS

System Structure	SikaWall®-485 MP mineral paint is applied in 2 to 3 coats. Alone, or in addition to the other products from the SikaWall®-485 MP product range, depending on the substrates, the corrective measures to be applied, and the level of water repellency desired. Refer to the "Substrate Quality / Pre-treatment" section for the different product combinations.
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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.

LIMITATIONS

- SikaWall®-485 MP is not suitable for application on horizontal surfaces.
- SikaWall®-485 MP is not intended to seal dynamic cracks.
- Do not dilute SikaWall®-485 MP with water, use SikaWall®-485 MP Dilution.
- Do not mix SikaWall®-485 MP with other products or additives.
- SikaWall®-485 MP must not be applied at temperatures below 5 °C nor those in excess of 30 °C, or if it is raining, or if there is an immediate likelihood of rain.
- Do not apply SikaWall®-485 MP in direct sunlight, on overheated support and in strong winds.
- Provide appropriate protection for surfaces such as glass, natural stone, ceramics, etc. which are not to be coated (. Any splashes of SikaWall®-485 MP on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.
- Not compatible with resin-based coatings, plast-elastomeric coatings, saponifiable old paints (as it may be the case for certain oil-based paints), and other non-wettable substrates (such as lacquers and varnishes)

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

EQUIPMENT

SikaWall®-485 MP paint can be applied by:

- Brush: Use a natural bristle or nylon / polyester
- Roller: Use a 13 mm to 19 mm (½ in to ¾ in) nap synthetic roller cover
- Sprayer: Use an Airless Paint Sprayer

For spray applications, contact spray equipment specialists to determine suitable equipment and for application advice.

SURFACE PREPARATION

The substrate must be sound, solid, dry, absorbent, clean, and free from dust, grease, oils, salts, moss, algae, and other substances that would impair adhesion. Old oil-based coatings, loose substrates, organically bound layers, and coatings should be removed. Damaged substrate should be repaired before painting with an appropriate Sika® repair material. Wait a minimum of 48 hours before applying the SikaWall®-485 MP on a repaired surface. Consult Sika Canada for recommendations.

For repaired substrates as well as substrates with texture differences or cracks up to 0.3 mm (12 mils), use SikaWall®-485 MP Texture as a basecoat instead of SikaWall®-485 MP.

Larger cracks up to 1 mm (40 mils) or large differences in texture may require primer with SikaWall®-485 MP Primer Plus as a basecoat.

Soft, porous, and highly absorbent surfaces or old existing mineral layers can be stabilized by pretreatment with SikaWall®-485 MP Dilution.

New mortar or masonry surfaces may require treatment with SikaWall®-485 MP Lime Remover before painting if lime deposits or cement laitance are present.

Surface contaminants must be completely removed with SikaWall®-485 MP Detergent or by other appropriate mechanical means. Old film-forming coatings which may interfere with vapour diffusion and/or non-adhering coatings should be removed using SikaWall®-485 MP Decap or by other mechanical means. Old, well-adhered acrylic coatings that will remain on the surface should be coated with SikaWall®-485 MP Primer or SikaWall®-485 MP Primer Plus as a primer coat before applications of SikaWall®-485 MP.

MIXING

Mix SikaWall®-485 MP to ensure uniformity using a slow speed (300 - 450 rpm) drill fitted with a Jiffy-style paddle. Mix for about three (3) to five (5) minutes until a homogeneous mixture is obtained.

If it is planned to use SikaWall®-485 MP Dilution as a diluent with SikaWall®-485 MP, mix each product separately using a drill firstly. Then add SikaWall®-485 MP Dilution to SikaWall®-485 MP and stir all materials together. Always have accurately measured materials. Do not exceed the recommended amounts. The recommended percent dilution is an "added by volume" rather than a ratio, as a rule:

A ratio of 10 % is equivalent to:

- 1.5 L (0.4 US gal) of SikaWall®-485 MP Dilution for 15.14 L (4 US gal) of SikaWall®-485 MP

The paint should be stirred regularly in its container before & during application to avoid segregation of constituents.

APPLICATION

TWO LAYER SYSTEM

1st coat (basecoat): Product SikaWall®-485 MP at a maximum dilution of 10 % 1.5 L (0.4 US gal) / 15.14 L (4 US gal) with the product SikaWall®-485 MP Dilution. Allow to dry 12 hours or overnight before recoating.

2nd coat (topcoat): SikaWall®-485 MP without dilution.

THREE-LAYER SYSTEM

1st coat (basecoat): Products such as SikaWall®-485 MP Texture, SikaWall®-485 MP Primer or SikaWall®-485 MP Primer Plus can be diluted up to a maximum of 10 % [1.5 L (0.4 US gal) / 15.14 L (4 US gal)] with SikaWall®-485 MP Thinner. Allow to dry for 12 hours or overnight before applying a second coat.

2nd coat (intermediate coat): Product SikaWall®-485 MP at a maximum dilution of 10 % 1.5 L (0.4 US gal) / 15.14 L (4 US gal) with the product SikaWall®-485 MP Dilution. Allow to dry 12 hours or overnight before recoating.

3rd coat (topcoat): Product SikaWall®-485 MP without dilution. It is important to work wet-on-wet maintaining a wet edge. Work corner to corner or use an architectural feature as a starting and stopping point.

For spray applications, contact spray equipment specialists to determine suitable equipment and for application advice. It is recommended to apply the basecoat with a paint brush or roller, to allow complete coverage on the surface.

IMPORTANT NOTE: Always carry out an application test in an inconspicuous to verify substrate conditions and to confirm application method, consumption rate, coverage and satisfactory finish. Best practice suggests that the selected area is acceptable to all parties involved and that it is representative of the area to be eventually painted.

CLEAN UP

Clean all tools and application equipment with water immediately after use. Once dried/cured, material 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

Sika Canada Inc.
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations
Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)

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Product Data Sheet
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