

PRODUCT DATA SHEET

SikaWall®-485 MP Dilution

Inorganic, potassium silicate-based mineral primer and paint diluent

PRODUCT DESCRIPTION

SikaWall®-485 MP Dilution is a silicate-based diluent and primer to be used alone or with other SikaWall-485 products. SikaWall®-485 MP Dilution adheres by a chemical bond with the mineral substrate offering a great durability. Ready-to-apply, for exterior and interior use, on verticales surfaces.

WHERE TO USE

- SikaWall®-485 MP Dilution is the diluent for the SikaWall®-485 potassium silicate-based paint system. It can be used with the following products:
- SikaWall®-485 MP
- SikaWall®-485 MP Texture
- SikaWall®-485 MP Primer
- SikaWall®-485 MP Primer Plus

- SikaWall®-485 MP Dilution can also be used alone on highly absorbent mineral substrates as a primer/pre-treatment to control the absorption rate before the application of the SikaWall®-485 MP potassium silicate-based paint system.
- 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

- Extremely vapour-permeable - allows the system to breathe
- Non-flammable - Does not release toxic gases or smoke in case of fire
- Resistant to fungal growth and algae
- Low VOC content

PRODUCT INFORMATION

Composition / Manufacturing	Organic Content: < 5 %
Packaging	3.78 L (1 US gal)
Appearance / Colour	Liquid / Milky
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 frozen, do not use and discard the product.
Density	ASTM C127-15 / ~ 1.015 g/cm ³

pH-Value	ASTM D5324-16 / ~ 11
Volatile organic compound (VOC) content	< 0.1 g/L
CSC MasterFormat®	09 97 23 Concrete and Masonry Coatings 09 93 13 Exterior Staining and Finishing 09 93 23 Interior Staining and Finishing
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
Microbiological Resistance	ASTM D3273 / Passes—No fungal growth
Permeability to Water Vapour	ASTM E96 / 87.5 perm

APPLICATION INFORMATION

Consumption	Approximately 55 m ² to 74 m ² (590 ft ² to 800 ft ²) per 3.78 L (1 US gal) per coat of SikaWall®-485 MP Dilution when applied as a primer for a pre-treatment. 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 the same tools and techniques that will be used for the final application. Refer to the appropriate Product Data Sheet 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.
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 to 36 hours depending on temperature and humidity.
Waiting Time / Overcoating	It is necessary to calculate a minimum of twelve (12) hours between each coat when SikaWall®-485 MP Dilution is used as a primer/pre-treatment or when it's used as a diluent for the following products: <ul style="list-style-type: none"> ▪ SikaWall®-485 MP ▪ SikaWall®-485 MP Texture ▪ SikaWall®-485 Primer ▪ SikaWall®-485 Primer Plus

SYSTEMS

System Structure	SikaWall®-485 MP Dilution serves as a diluent for the SikaWall®-485 potassium silicate-based coatings system. SikaWall®-485 MP Dilution can also be used alone on highly absorbent mineral substrates as a primer/pre-treatment to control the absorption rate before the application of a product from the SikaWall®-485 potassium silicate-based paint system.
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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 Dilution is not suitable for application on horizontal surfaces.
- SikaWall®-485 MP Dilution is not intended to seal dynamic cracks.
- Do not dilute SikaWall®-485 MP Dilution with water.
- Mix SikaWall®-485 MP Dilution only with product from the SikaWall®-485 potassium silicate-based paint system.
- SikaWall®-485 MP Dilution 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 Dilution in direct sunlight, on overheated support and in strong winds.
- Provide appropriate protection for surfaces which are not to be coated (such as glass, natural stone, ceramics, etc.). Any splashes of SikaWall®-485 MP Dilution on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.
- Not compatible with resin-based coatings, plasto-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

When SikaWall®-485 MP dilution is used as a primer for a pre-treatment

- 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
- Low Pressure Spray

When SikaWall®-485 MP dilution is used as a primer for a dilution for the SikaWall®-485 potassium silicate-based paint and base coat/primers

- Brush: Use a natural bristle or nylon / polyester
- Roller: Use a 13 mm to 19 mm (½ into ¾ in) nap synthetic roller cover
- Sprayer: Use an Airless Paint Sprayer (*Except for SikaWall®-485 Primer Plus and SikaWall®-485 MP Texture*)

For spray applications, contact spray equipment specialists to determine suitable equipment and for application advice. If the product is applied with an Airless sprayer, it is recommended to back roll the surface gradually during the application.

It is recommended to apply the basecoat with a brush, roller, to allow complete coverage on the surface.

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 Dilution on a repaired surface. Consult Sika Canada for recommendations.

For new concrete structures; concrete should be at least 28 days old and free of any formwork oil, mold lubricating oil, shuttering oil, mold release oil, concrete form oil residues, and curing compounds. These should be removed with SikaWall®-485 MP Detergent or by other methods.

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 appropriate mechanical means. Old film-forming coatings which may interfere with vapor diffusion and/ or non-adhering coatings should be removed using SikaWall®-485 MP Decap or by other appropriate mechanical means.

MIXING

Mix SikaWall®-485 MP Dilution 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 one of our SikaWall®-485 potassium silicate-based paint, mix each product separately using a drill firstly. Then, add SikaWall®-485 MP Dilution and stir all materials together.

Do not exceed a recommended ratio of 10 % which 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

You always have accurately measured materials. Mix for about three (3) to five (5) minutes until a homogeneous mixture is obtained. Stirred regularly in its container during application to avoid segregation of constituents.

APPLICATION

AS A PRE-TREATMENT

- 1st coat (base coat): SikaWall®-485 MP Dilution undiluted.

TWO LAYER SYSTEM

- 1st coat (base coat): Mix SikaWall®-485 MP Dilution to a maximum of 10 % (1.5 L (0.4 US gal) / 15.14 L (4 US gal)) with SikaWall®-485 MP. Allow to dry 12 hours or overnight before recoating.
- 2nd coat (topcoat): Apply SikaWall®-485 MP without dilution.

THREE-LAYER SYSTEM

- 1st coat (basecoat): Mix SikaWall®-485 MP Dilution to a maximum of 10 % (1.5 L (0.4 US gal) / 15.14 L (4 US gal)) with SikaWall®-485 MP, SikaWall®-485 MP Texture, SikaWall®-485 Primer or SikaWall®-485 Primer Plus.
- 2nd coat (intermediate coat): Mix SikaWall®-485 MP Dilution to a maximum of 10 % (1.5 L (0.4 US gal) / 15.14 L (4 US gal)) with SikaWall®-485 MP.
- 3rd coat (topcoat): Apply 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.

IMPORTANT NOTE: Always carry out an application test in an inconspicuous to verify substrate conditions and to

confirm application method, consumption rate and coverage. Best practice suggests that the selected area is acceptable to all parties involved and that it is representative of the area to be eventually pre-treated with SikaWall®-485 MP Dilution as a base coat and/or 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

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Product Data Sheet

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