

PRODUCT DATA SHEET

SikaWall®-485 MP Primer Plus

Inorganic mineral basecoat/primer for filling cracks and leveling appearance (≤ 1 mm (40 mils))

PRODUCT DESCRIPTION

SikaWall®-485 MP Primer Plus is a fiber-reinforced coarse-textured basecoat based on potassium silicate. SikaWall®-485 MP Primer Plus can be used for priming & filling surfaces exclusively in combination with the SikaWall®-485 MP or SikaWall®-485 MP Texture. SikaWall®-485 MP Primer Plus contains glass fibers and high-grade fillers in balanced grain sizes and shapes. Ready-to-apply, for exterior and interior use.

WHERE TO USE

- SikaWall®-485 MP Primer Plus is ideal to fill cracks up to 1 mm (40 mils) and helps equalize differences and imperfections in the surface texture and hiding repairs.
- SikaWall®-485 MP Primer Plus can also be used for priming existing organic substrate (Acrylic - Silicone resin-based coatings & Acrylic stucco) for subsequent coats of SikaWall®-485 MP or SikaWall®-485 MP Texture.
- 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

- Can fill cracks up to 1 mm (40 mils) wide
- Help to equalize textures and hide repairs
- Extremely vapor-permeable allows the system to breathe
- Non-flammable - Does not release toxic gases or smoke in case of fire
- All components are UV stable
- Durable bonding to the substrate by silicification
- Does not flake
- Water-repellent - excellent resistance to weathering, acid rain, and industrial pollutants
- Resistant to fungal growth and algae
- Easy to apply & excellent covering power
- 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
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. If the product has frozen, do not use.

Density	ASTM C127-15 / ~ 1.58 g/cm ³
Maximum Grain Size	0.5 mm grain size (20 mils)
pH-Value	ASTM D5324-16 / ~ 11
Volatile organic compound (VOC) content	< 0.1 g/L
CSC MasterFormat®	09 97 23 Concrete and Masonry Coatings
Resistance to Fire	ASTM D635 / Non-flammable
Permeability to Water Vapour	ASTM E96 / 78 - 88 perms
Water Vapour Transmission	ASTM E96 / sd (H ₂ O) 25.89 g/h*m ²
Light fastness of colour pigments	ASTM 4587 UVB Condensation - 200 h / Passed: UV-resistant
Consumption	Approximately 32.2 m ² to 48 m ² (360 ft ² to 520 ft ²) per 15.14L (4 US gal) per coat of SikaWall®-485 MP Primer Plus. 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.
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 and 36 hours depending on temperature and humidity.
Waiting Time / Overcoating	It is necessary to calculate a minimum of twelve (12) hours between each coat.

SYSTEMS

System Structure	SikaWall®-485 MP Primer Plus serves as a basecoat for priming & filling surface exclusively in combination with the SikaWall®485 MP. SikaWall®-485 MP Primer Plus can be mixed with SikaWall®-485 MP Dilution. <u>SikaWall®-485 MP Primer Plus cannot be used as a finish coat, it needs to be cover by two (2) coats of SikaWall®-485 MP.</u> 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 Primer Plus must always be over coated with two (2) coats of SikaWall®-485 MP.
- SikaWall®-485 MP Primer Plus is not suitable for application on horizontal surfaces.
- SikaWall®-485 MP Primer Plus is not intended to seal dynamic cracks.
- Do not dilute SikaWall®-485 MP Primer Plus with water, use SikaWall®-485 MP Dilution.
- Do not mix SikaWall®-485 MP Primer Plus with other products or additives.
- SikaWall®-485 MP Primer Plus must not be applied at temperatures below 5 °C nor those in excess of 30 °C, nor if it is raining, or if there is an immediate likelihood of rain.
- Do not apply SikaWall®-485 MP Primer Plus 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 Primer Plus on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.
- Not compatible with 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

SikaWall®-485 MP Primer Plus can be applied by:

- Brush: Use a natural bristle or nylon/polyester
- Roller: Use a 13 mm to 19 mm ($\frac{1}{2}$ in to $\frac{3}{4}$ in) nap synthetic roller cover

Application by brush is best for crack filling as the material can be worked into all surfaces well. For equalizing appearance application by roller is recommended.

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 substrate layers, and loose organically bound coatings must be removed. Repair damaged areas before painting.

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 Primer Plus on a repaired surface. Consult Sika Canada for recommendations.

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

Soft, porous, and highly absorbent surfaces or old existing mineral layers can be stabilized by pre-treatment 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 by SikaWall®-485 MP Detergent or appropriate mechanical means.

On non-absorbent substrates, SikaWall®-485 MP Primer Plus should always be applied undiluted. On absorbent substrates, SikaWall®-485 MP Primer Plus can be diluted up to a maximum of 10 % with SikaWall®-485 MP Dilution.

MIXING

Mix SikaWall®-485 MP Primer Plus 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 Primer Plus, mix each product separately using a drill firstly. Then, add SikaWall®-485 MP Dilution to SikaWall®-485 MP Primer Plus 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 Primer Plus

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

APPLICATION

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. Stirred regularly in its container before & during application to avoid segregation of constituents.

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 Primer Plus

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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