

## PRODUCT DATA SHEET

# SikaWall®-580 Monorex GM UK

### One Coat Through Coloured Render

#### PRODUCT DESCRIPTION

A through coloured, one coat, semi-lightweight, weather resistant and breathable decorative render.

#### USES

As an external render for application onto vertical masonry and concrete walls.

#### CHARACTERISTICS / ADVANTAGES

- Available in a range of 4 colours - G00 Natural White, G10 White Light, G20 Off-White and LW1 Limestone White in a medium grain size
- Excellent finishing
- Suitable for diesel and electric spray machines

#### PRODUCT INFORMATION

<b>Chemical Base</b>	Hydraulic mortar containing: Cement, lime, siliceous and calcareous sands, mineral pigments and specific admixtures.
<b>Packaging</b>	25 kg bags
<b>Appearance / Colour</b>	<p><b>COLOURS</b> Available in a range of 4 colours - G00 Natural White, G10 White Light, G20 Off-White and LW1 Limestone White</p> <p><b>FINISHES</b></p> <ul style="list-style-type: none"> <li>▪ Medium Scraped</li> <li>▪ Spray Textured - from tyrolean style to heavy roughcast effect.</li> <li>▪ Smoothed Spray Textured</li> </ul> <p>For additional information refer to the data sheet on Textured Mineral Finishes.</p>
<b>Shelf Life</b>	12 Months from date of manufacture
<b>Storage Conditions</b>	Dry frost free conditions.
<b>Maximum Grain Size</b>	Granulometry: 0 - 2.5 mm

#### TECHNICAL INFORMATION

<b>Compressive Strength</b>	CS II
<b>Reaction to Fire</b>	A1

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	5.2-6.3 L water per 25 kg bag		
<b>Consumption</b>	Coverage is provided as a guidance only, excludes wastage and will vary subject to substrate conditions and thickness applied.		
<b>USES</b>	<b>WEATHERPROOFING COAT</b>	<b>DECORATION</b>	
Substrate	Concrete Blocks, Bricks, etc	Concrete, base coat renders, etc.	
Scraped	1.0-1.1 m <sup>2</sup> @ 15 mm/25 kg bag	1.4-1.5 m <sup>2</sup> @ 10 mm/25 kg bag	
Spray Textured	1.2-1.3 m <sup>2</sup> @ 15 mm/25 kg bag	1.6-1.7 m <sup>2</sup> @ 10 mm/25 kg bag	

## VALUE BASE

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

## LIMITATIONS

- Product intended for professional use.
- It is advisable when completing the different finishes, to take into account the hardening time, which will vary according to climatic conditions.
- Avoid applications on substrates exposed to direct sun or in hot drying winds.
- Do not apply on over heated substrates. In hot condition dampen the substrate prior to application. Dampen the render after application.
- Do not apply to a frozen substrate or on thawing substrates. Do not use in freezing conditions. Take precautions during damp climatic conditions. Discolouration could occur).
- Do not apply on very wet substrates or where there are wet patches. (Discolouration could occur).
- Minimum application temperatures: +5 °C for light colours, +8 °C for dark colours.
- Over +30 °C, special precautions must be taken.
- In order to reduce the risk of colour differences after drying, always use the same batch number for the same façade.

## ECOLOGY, HEALTH AND SAFETY

Wear suitable protective clothing, gloves and eye / face protection. This product contains materials which may cause an allergic reaction, is irritating to eyes and harmful if swallowed. In case of contact, seek medical advice. Keep out of the reach of children. Read and follow the guidelines in the Health and Safety data sheet for this product.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### EQUIPMENT REQUIRED

Application by machine	Spray Render Machine	Constant Mix and Pump Machine
Pump Pressure	10-12 bar (water)	15-16 bar/360 water flow L/hr
Pumping distance/height	Up to 120 m/60 m approx	Up to 50 m/30 m approx
Power Source	Diesel	Electric - Based on PFT G4/G5. Other machine settings may differ

## SUBSTRATE QUALITY / PRE-TREATMENT

### SUITABLE SUBSTRATES

Masonry and walls conforming to BS 5628-3 and constructed from the following:

- Ultra-lightweight, lightweight & dense aggregate concrete blocks<sup>(1)</sup>.
- Bricks.
- Clay blocks e.g. Porotherm<sup>(1)</sup>.
- Standard low and normal density lightweight aircrete blocks.
- Breeze blocks (clinker)<sup>(1)</sup>.
- Stone/rubble stone.
- Shuttered concrete<sup>(1)</sup>.
- Expanded clay insulation blocks<sup>(1)</sup>.
- Clean, sound, well adhered existing render.
- Base coats conforming to BS EN 13914-1
- Sika Grey weather resistant base coats, e.g. MONOGRIS E, PARMUREX.
- For below dpc applications and old substrates in accordance with BS8000 - 4 Code of Practice for Waterproofing, consult Parex®.

<sup>(1)</sup> These substrates will require a suction control coat of MICRO GOBETIS 3000

### UNSUITABLE FOR

- Weak mortar or plaster (Gypsum) coated constructions.
- Exposed vertical substrates with a backward incline above 10 ° - a backward incline may affect water run off and may have a tendency to hold moisture.
- Painted substrates - Unless treated with PARINTER. Contact Sika®.

### SUBSTRATE PREPARATION

- Substrates must be clean, sound, dust-free and free of any material which may prevent adhesion.
- Remove all traces of plaster, paint, etc.
- Construction of the masonry must comply with BS 8000-3.
- On low suction substrates e.g. shuttered concrete or high suction substrates e.g. lightweight aircrete or clay blockwork, first apply a coat of ready-to use MICRO GOBETIS 3000 or a MONOREX GM key-coat made up by adding 0.5 L of 751 LANKOLATEX to the mixing water volume for a 25 kg bag of MONOREX GM.
- On wet or wet patchy substrates or where different materials have been used it is advisable to apply a key coat made up by exchanging 0.5 L of water for 0.5 L of 751 LANKOLATEX or FIXOPIERRE for the mixing volume for a 25 kg bag of MONOREX GM. Allow the key coat to fully dry a minimum of 48 hours before the application of the next coat. This suggestion will assist against the effect of 'block ghosting' and shade variation.
- TV10 MESH may also be required, dependent upon substrate condition and project specification.

#### Advisory note

- Due to shrinkage differentials, avoid applying a thin base coat and a thicker top coat application as the shrinkage values of a thicker top coat could cause the render to delaminate from the base coat. The same effect is also caused by applying a very hard render over a softer base coat.
- Always refer to the Parex/Sika mesh application details.
- To avoid shade variations always apply and finish the render application to whole elevations at the same time.

#### APPLICATION

- Refer to and comply with the Substrate Preparation first.
- For very severe wind driven rain index locations, high exposure or coastal zones please contact Sika® for additional guidance as the render thickness may need to be increased and additional surface treatment may be recommended.

#### SUITABLE FOR

- Machine or manual applications.
- Ensure the product is mixed correctly with the correct water content and do not allow the render to cure too quickly as surface holes in the render could occur.

FOR WEATHERPROOFING APPLICATIONS TO CONCRETE BLOCKS, CLAY BLOCKS, LIGHTWEIGHT AIRCRETE BLOCKS, BRICKS, ETC.

#### SPRAY TEXTURED & SMOOTH SPRAY TEXTURED

- Apply a level, compact minimum 13 - 15 mm thick first coat. Allow to dry and then spray the Textured finish. The Smooth Textured appearance is obtained by pressing a plastic or stainless-steel float over the stiffened but not dry Textured finish.

#### SCRAPED FINISH

- Apply a level, ruled compact 18 mm thick coat, level the surface with a straight edge, spatula or trowel flat. Allow to dry (3-16 hours) and depending on the substrate and drying conditions, scrape the surface in small circular motions using a scraping tool, removing no more than 3 mm from the surface.
- This scraping process must remove any slight imperfections and bring the application to the specified finished thickness. Each elevation must be scraped at the same stage, as early scraping will result in a slightly darker shade and later scraping in a lighter shade. The minimum finished thickness after scraping is 15 mm.

- After scraping, any dust on the surface should be removed by brushing with a clean soft bristle brush. Always stand back and examine the whole surface for blemishes and unevenness. Errors must be corrected at this stage as rectification later is not practical.

FOR DECORATING WATERPROOF CONCRETE AND MASONRY SUBSTRATES, I.E. COVERED WITH AN EXISTING SOUND AND WEATHERPROOF RENDER.

#### SPRAY TEXTURED & SMOOTH SPRAY TEXTURED

- Apply a level, ruled, lined, compact minimum 5 mm-thick first coat. Allow to dry and then spray the Textured coat. The Smooth Textured appearance is obtained by pressing a plastic or stainless-steel float over the stiffened but not dry Textured coat.

#### SCRAPED FINISH

- Apply a level, ruled compact 13 mm thick coat, level the surface with a straight edge, spatula or trowel flat. Allow to dry (3-16 hours) and depending on the substrate and drying conditions, scrape the surface in small circular motions using a scraping tool, removing no more than 3 mm from the surface.

#### LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

#### 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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