

## PRODUCT DATA SHEET

# SikaWall®-6400 Fire Acrylic

Non-combustible, colored, water repellent, decorative, paste-like finishing render

### DESCRIPTION

SikaWall®-6400 Fire Acrylic is an organic, ready-to-use, water-repellent paste of high fire resistance, used as finishing and protective coating. Available in two granulometries: Fine (1.2 mm) and Medium (1.5 mm), and in a wide range of colors, depending on the maximum grain size and the desired aesthetic effect of the final surface.

### USES

- Designed for use as the final coating of the External Thermal Insulation Composite System: **Sikatherm® Fire**
- Suitable as finishing coat in indoor and outdoor applications
- Suitable for application on concrete, masonry, dry-wall boards e.t.c.

### FEATURES

- Excellent UV resistance
- High elasticity and workability

### PRODUCT INFORMATION

Composition	Acrylic dispersion with fillers of specific granulometry
Packaging	25 kg pail
Appearance and colour	White and colored paste, based on Sika coloring system
Shelf life	18 months from date of production
Storage conditions	The Product must be stored in original, unopened and undamaged sealed packaging, in dry conditions, at temperatures between +5 °C and +35 °C. Protect from direct sunlight and frost.
Density	1.85 ± 0.05 kg/lit
Grain size distribution	Available in two granulometries: Fine: (1.2 mm) & Medium: (1.5 mm)

- Non-combustible material with no contribution to fire development
- Breathable and water-repellent
- Available in a wide range of colors
- Available in various grain sizes in order to achieve the desired aesthetic effect
- Suitable for outdoors and indoors applications
- According to EN 15824
- Reaction to fire: A2-s1,do according to EN 13501-1

### SUSTAINABILITY

- VOC content test: Meets SCAQMD Rule 1168
- Specific Environmental Product Declaration (EPD), in accordance with ISO 14025 and EN 15804

### CERTIFICATES AND TEST REPORTS

- CE marking and Declaration of Performance to EN 15824- External renders and internal plasters based on organic binders
- CE marking and Declaration of performance to EAD 040083-00-0404 -External Thermal Insulation Composite System (ETICS) with renderings.

## TECHNICAL INFORMATION

Tensile adhesion strength	<b>Results</b> >0.6 MPa	<b>Requirement</b> ≥0.3 MPa	(EN 1542)
Reaction to fire	A2-s1, do		
Permeability to water vapour	<b>Results</b> Cat. V2 ( $s_d < 0.25$ )	<b>Requirement</b> Diffusion equivalent to the air layer thickness, $s_d$ $0.14 \leq s_d < 1.4$	(EN ISO 7783)
Thermal conductivity	1.11 W/m·K (EN 1745)		
Water absorption	<b>Results</b> Cat. W3	<b>Requirement</b> $w \leq 0.1 \text{ kg} / (\text{m}^2 \text{h}^{0.5})$	(EN 1062-3)

## APPLICATION INFORMATION

Consumption	<b>SikaWall®-6400 Fire Acrylic Fine</b> ~2.1kg/m <sup>2</sup> <b>SikaWall®-6400 Fire Acrylic Medium</b> ~2.65kg/m <sup>2</sup>
Ambient air temperature	Min. +5 °C / Max. +35 °C
Substrate temperature	Min. +5 °C / Max. +35 °C
Waiting time to overcoating	Tack free after ~3 – 4 hours (23 °C / 50 % R.H.)
Applied product ready for use	After ~7 days

## SYSTEM INFORMATION

System structure	<b>SikaWall®-6400 Fire Acrylic</b> forms part of <b>Sikatherm® Fire</b> ETIC System, which consists of the following products: <b>SikaWall®-1050 Elite</b> Cementitious mortar (acc. to EN 998-1) for bonding and rendering thermal insulation boards <b>Sikatherm® MW</b> Non-combustible rock based mineral fiber insulation boards (MW), suitable for ETICS (acc. to EN 13162) <b>SikaWall®-9160</b> Alkali resistant glass fiber mesh for strengthening the rendering of thermal insulation boards <b>SikaWall®-63 ETICS Primer</b> Water dispersed primer for pastelike renders <b>SikaWall®-6400 Fire Acrylic (or SikaWall®-6500 Fire Silic)</b> Acrylic (or silicone) based, fire-resistant paste-like finishing coating (acc. to EN 15824) <b>Sikatherm® Anchors</b> Plastic expandable fixation anchor with plastic / steel nail, for external thermal insulation composite systems (acc. to EAD 330196-00-0604) Anchor made of hot-dip galvanized or stainless steel, for high fire resistance demands and specifications
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## BASIS OF PRODUCT DATA

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.

## IMPORTANT CONSIDERATIONS

- Proper organization of the construction site and correct storage of products
- Through the entire application, drying and hardening

phase, the ambient, substrate and material temperature must be at least +5 °C

- Unfavorable weather conditions, such as temperatures above +35 °C, wind and direct exposure to the sun, can also affect the application properties
- Suitable scaffolding nets should be provided in order to protect the facade, the substrate and the individual layers against external weather influences (sun, wind, rain)
- Ensure that, if needed, only cold water is used (drinking water quality)
- Prior to the application, check the color shade and the sufficient quantity of SikaWall®-6400 Fire Acrylic on site, for the complete application
- For exact color matching, ensure that SikaWall®-6400 Fire Acrylic has the same batch number on each section of the facade. Surfaces, from one corner of the wall to the other, are defined as sections
- In case that the application process has to stop, do so near joints, balconies or areas with sharp lines, so when the application restarts, the connection marks will be less obvious
- It is recommended that the applicators should be the same during the whole application. They should work in groups, so as that one applicator applies SikaWall®-6400 Fire Acrylic on the surface and the second one smooths the still wet surface of the applied product, without any interruption. The application & smoothing process should not stop on the surface for any other reason but coming across an edge or an architectural finish, such as a gutter or an architectural detail. If this process is not strictly followed, there is a risk for darkening / shade appearance on the final surface, despite the fact that product is applied from the same batch. The application process, as described above, should take place simultaneously on each level. Therefore, it is really important that the planning of the application is properly organized in advance
- In case of SikaWall®-6400 Fire Acrylic application from different batch numbers, stir the content of 2 or more pails in a large container. When sufficient quantity of the prepared compound (for example half of it) is used, stir the remaining material with the content of the next pail following the same process, in order the final color shade to be uniform for whole application

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The substrate must be dry, sound and free from cracks, oil, grease, loose and friable particles, which could affect the correct application of SikaWall®-6400 Fire Acrylic.

#### Rendering / Coated surfaces

The substrate must be sound, free from dust, dirt, friable parts, grease, efflorescence, e.t.c. Dirty, greasy substrate must be prepared by hydroblast (max 200 bar) with suitable cleaning agents. Rinse off with clear water and allow to dry. Old existing layers must be checked in order to verify their adhesion to the substrate and must be completely removed if they are considered as unsuitable substrate.

#### Concrete

The substrate must be mature (at least 28 days old). Dirty and greasy substrates must be prepared by suitable mechanical methods, such as high pressure hydroblast (max 200 bar) with suitable cleaning agents. Rinse off with clear water and allow to dry. Repairs of the substrate and filling of blowholes/voids, must be carried out in a separate working step, using appropriate mortars (e.g. SikaRep® / Sika MonoTop® range). Observe drying times.

When alignment work is needed, apply SikaWall®-1050 Elite or SikaWall®-1030 Easy for rendering as base coat by embedding SikaWall®-9160 Mesh GR/GR Flex, and wait for them to dry out.

#### Masonry/ Drywall Boards

The substrate must be prepared mechanically in order to remove friable parts or remnants of old mortars. Dusty substrate should be cleaned by brushing or by high pressure hydroblast (max 200 bar) and with suitable cleaning agents in case of greasy substances. Rinse off with clear water and allow to dry. Repair and smooth over any irregularities and cavities in a separate working step, using suitable masonry mortars (e.g. SikaRep®-200 Multi). Observe drying times. When alignment work is needed, apply SikaWall®-1050 Elite or SikaWall®-1030 Easy for rendering as base coat by embedding SikaWall®-9160 Mesh GR/GR Flex, and wait for them to dry out.

Moisture protection is a critical consideration, as the presence of moisture may cause swelling of the substrate, particularly in drywall boards. In all cases, rising moisture phenomena must be treated and damp areas must dry out prior to the application.

After allowing the base coat sufficient time to harden and following application of the system primer, SikaWall®-6400 Fire Acrylic can be applied.

**Important:** If SikaWall®-6400 Fire Acrylic is applied too soon, there is a risk that patches will be created.

At least 12 hours before the application, apply one layer of SikaWall®-63 ETICS Primer diluted with 15 % by weight of clean water depending on substrate's absorption and wait for 12 – 24 hours, depending on the prevailing conditions. If needed, select the appropriate color of SikaWall®-63 ETICS Primer, in order to ensure that the application of SikaWall®-6400 Fire Acrylic will not encounter issues concerning the tint (differences on shades, e.t.c.)

For further technical information, please consult our Technical Department.

## MIXING

SikaWall®-6400 Fire Acrylic is ready for use. Stir thoroughly prior to the application for 3 – 4 minutes. If required, up to 1 % (250 ml) of clean water (drinking quality), may be added per 25 kg pail.

Special attention should be paid to tinted darker colour shades of the product, where addition of water is suggested to be less than 250 ml. The addition of excess water may differentiate the product's technical characteristics.

## APPLICATION

Apply a uniform layer of SikaWall®-6400 Fire Acrylic, manually from top to bottom, using a stainless steel spatula at a thickness layer corresponding to the product's maximum grain size. Smooth the surface using a plastic trowel according to the desired aesthetic effect.

## CLEANING OF EQUIPMENT

Removal of fresh remnants from tools and application equipment can be carried out using water immediately after use. Hardened / cured material can only be mechanically removed.

## 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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### Product Data Sheet

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