

### SILICON TROWELED RENDER 2,0/2,5

Silikonski zariban omet

### SILICON SMOOTH RENDER 1,5/2,0/2,5

Silikonski glajen omet

#### General Description and Fields of Application

Silicon decorative renders are pasty, ready-to-use renders, intended for decorative protection of façade surfaces, especially of thermal-insulation systems (JUBIZOL façade). The thickness of the render is usually slightly larger than the diameter of the largest grain in the mortar compound.

Due to special additives (which are not health hazardous) with characteristic smell silicon renders **are not recommended for decorative treatments of interior wall surfaces**.

#### **SILICON TROWELED**

**RENDERS** (2 granulations: 2 and 2,5 mm) has – depending on the troweling technique (horizontal, circular or vertical) – distinctive grooved structure, similar to the oak bark.

#### **SILICON SMOOTH RENDERS**

(3 granulations: 1,5; 2,0 and 2,5 mm) has – depending on the granulation – equally smooth structure that somewhat reminds of fine-grain structure of the scraped plasters. The plasters are distinguished for their high hardness, good adhesion to the substrate, sufficient water-vapor permeability (Class 2 – EN ISO 7783-2) and resistance to effects of smoke and ultraviolet radiation and especially for high water-repellence (Class 3 – EN 1062-

3), therefore they are especially suitable for decorative protection of façade surfaces on high buildings, which are heavily exposed to rainfall.

#### **Composition**

Water-based silicon and acrylic binders, aggregates, inorganic pigments, special additives.

**All silicone renders are additionally protected against the growth of mould and algae.**

#### **Colour Shades.**

128 colour shades on the colour chart PAINTS AND PLASTERS (JUMIX System).

#### **Substrate**

The substrate should be leveled, fine coarse grained (fine plaster), solid, dry and clean, without weakly bound particles, dust, easy water-soluble salts, oil stains or other filth. On previously painted surfaces, all loose, peeling and chalking paint must be removed. Newly applied renders must be dried for 3-4 weeks (for each cm, at least 7 – 10 days, for insulant light weight renders 5 –7 days) (T = +20 °C, R.H. = 65 %). Surfaces infected with wall mildew and algae must be disinfected prior to plastering. Washing with a jet of hot water or steam is especially recommended for all concrete surfaces.

**Suitable Surfaces:** fine mineral key renders of all kinds, base coat (cement-based) thermal-insulation systems (JUBIZOL façade), concrete surfaces, fiber-cement façade boards and gypsum-cardboards.

Application to old tightly adhered masonry paints is possible.

**Unsuitable Surfaces:** all surfaces painted with washable coatings, chalk-based (water dissolving coats), surfaces painted with oil paints, lacquers or enamels, plastic compounds and wooden surfaces.

#### **Preparation of Mortar Compound**

Mix the mortar compound in the container well, using a manual electric mixer.

If necessary, thin it with up to 1% of water.

#### **CAUTION!**

When more than one container of mortar compound is needed to cover the individual wall surface, avoid the irregular colouration due to eventual differences in colour shades by equalizing the paint in large container of appropriate size. Perform the equalization especially carefully when using the tinting renders and when the plasters of **different production batches or different dates of manufacture**, are applied on the same wall surface.

SUBSTRATE	PRIMER	CONSUMPTION	DRY TO RECOAT
fine mineral key render, base coat of thermal-insulation systems	UNIGRUND (in colour shade of the render) <b>RECOMMENDED !</b>	150 - 200 g/m <sup>2</sup>	min. 12 hours (T = +20 °C, R.H. = 65 %)
	JUBOSIL F (in colour shade of the render) : water = 1 : 1	JUBOSIL F ~120 ml/m <sup>2</sup>	4 – 6 hours (T = +20 °C, R.H. = 65 %)
	JUBOSIL G (thinned with water 1 : 1)	JUBOSIL G ~100 ml/m <sup>2</sup>	
Smooth, low-absorbing surfaces: concrete, gypsum-cardboard boards, fiber-cement boards,	UNIGRUND (in colour shade of the render) <b>RECOMMENDED !</b>	150 - 200 g/m <sup>2</sup>	min. 12 hours (T = +20 °C, R.H. = 65 %)
	VEZAKRIL	ca. 300 ml/m <sup>2</sup>	

### TECHNICAL DATA

render	density (kg/dm <sup>3</sup> )	drying time T: 20 °C, R.H.: 65 %		water vapour transmission EN ISO 7783-2		liquid water permeability w (kg/m <sup>2</sup> h <sup>0.5</sup> ) EN 1062-3	adhesion to I-c render EN 24624 (N/mm <sup>2</sup> ) (MPa)
		dry to touch	protect against rainfall	μ value(-)	Sd value(m)		
SNTR 2,0	app. 1,70	app.6 hrs	app.24 hrs	< 200	< 0,35	< 0.06	> 0,25
SNTR 2,5	app. 1,75	app.6 hrs	app.24 hrs	< 200	< 0,40	< 0.06	> 0,25
SNSR 1,5	app. 1,80	app.6 hrs	app.24 hrs	< 200	< 0,30	< 0.06	> 0,25
SNSR 2,0	app. 1,85	app.6 hrs	app.24 hrs	< 200	< 0,35	< 0.06	> 0,25
SNSR 2,5	app. 1,90	app.6 hrs	app.24 hrs	< 200	< 0,40	< 0.06	> 0,25

Notes:

SNTR: **Silicon Troweled Render**

SNSR: **Silicon Smooth Render**

### Application of Renders

Prepared mortar compound can be applied manually - using a stainless steel smoothing trowel – or using a machine (e.g. WAGNER PC 30, PC 25 and PC 5) – in the thickness, as close as possible to the diameter of the largest grain in the mortar compound. Remove the excessive compound using a stainless steel smoothing trowel, regardless to the method of application.

### SILICON SMOOTH RENDERS

Immediately or a few minutes after the application (depending on the absorption of the surface and microclimate conditions!) smooth the plaster surface with circular strokes using a solid and smooth plastic smoothing trowel, to achieve as equal and filled look as possible.

### SILICON TROWELED RENDERS

A few minutes after the application (usually 10, it may

also be more or less, depending on the absorption of the surface and microclimate conditions) trowel the plaster surface using a solid plastic smoothing trowel. Trowel the surface horizontal, vertical or circular strokes until the desired structure is achieved. A few minutes after the troweling, smooth the render surface lightly using a clean stainless steel smoothing trowel.

### Application Temperature:

Air and surface temperature for application should not be lower

than +5 °C and not higher than +35 °C, R.H. < 80%.  
Protect the façade surfaces against the sun, wind and rainfall with curtains; however do not apply the paint in rain, fog or strong wind ( $\geq 30$  km/h), even with such protection.

### RECOMMENDATION

Application of the plasters should be performed as fast as possible – without interruption, from one corner of the wall to the other.

When applying the plasters to the wall surfaces higher than one floor, the plasters must be applied simultaneously to all floors: in such cases always begin the application of the plaster at the top floor, while in lower floors work with a “step shift”.

Divide larger wall surfaces to smaller sections, with stripes, channels, mortar borders, frames, or some methods and avoid the problems of continuous application of the plaster and also unaesthetic look because of eventually uneven surface. The

contacts between surfaces in corners and corner edges are made easier if a few cm wide fine-smoothed stripes are applied. They also give a pleasant decorative effect to treated surfaces. Decorative stripes, channels, mortar borders, frames, etc. are usually applied prior to application of decorative render. Protect them with appropriate façade paints and pay attention not to apply the paint in uncontrolled manner over the edges; on the surfaces prepared for application of decorative render.

### Consumption, Storage, Packaging

RENDER	Consumption (kg/ m <sup>2</sup> )	Packaging	Durability when stored in originally sealed and undamaged packaging, protected from freezing and direct sunlight
<b>Silicon Troweled Render 2,0</b>	app. 2,8	Plastic container 25 kg	at least 12 months
<b>Silicon Troweled Render 2,5</b>	app. 3,5	Plastic container 25 kg	at least 12 months
<b>Silicon Smooth Render 1,5</b>	app. 2,9	Plastic container 25 kg	at least 12 months
<b>Silicon Smooth Render 2,0</b>	app. 3,1	Plastic container 25 kg	at least 12 months
<b>Silicon Smooth Render 2,5</b>	app. 4,7	Plastic container 25 kg	at least 12 months

### Tool Cleaning

Thoroughly clean all the tools with water immediately after use.

**ATTENTION!** Before applying the silicon paints and coatings, protect window glasses, door and window frames and window shelves thoroughly. Remove eventual stains immediately.

### Safety at Work

Consider general instructions and regulations for construction and painting works. Special protecting means and measures for work safety, when applying silicone plasters, are not necessary.

### Waste Handling

Liquid waste must not be disposed together with domestic wastes, poured into water or in sewage system.

After hardening deposit as a construction waste:

**EWC: 17 09 04**

Packaging may be recycled after appropriate cleaning.

### Colour Shades - Caution

Because of incorrect preparation of the surface, non-consideration of equalizing rules when preparing the mortar compound and/or application of the plaster in unsuitable weather and microclimate conditions (high relative humidity, low temperatures) unequal colour shade can appear on the surface of applied plaster, for which we

cannot take any responsibility. Spotted surfaces can be equalized using micro-reinforced façade paint REVITALCOLOR AG.

### Health Integrity

Based on researches at the Institute of public health in Maribor, the dried coats of silicone plasters are not hazardous to health.

### Quality Control

ISO 9001 and ISO 14001. Factory production control and occasional testing at various independent professional institutions, home and abroad.

### Link to other JUB Products

See also Technical sheets:  
**01** Primers,  
**15** Revitalcolor AG

Technical instructions in this brochure are based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect choice of the product, incorrect use or unprofessional work. Minor differences in colour shades are possible among the equivalent plasters from different production batches, however the shades do not vary from those in the colour charts for more than  $\Delta E = 1,0$  and  $\Delta a = 0,4$ . The test for colour shade tolerances must be performed on standard test cardboard after the coat dries. Colour shade variations, caused by application of the plaster on surfaces with different coarseness and absorbing properties, cannot be subject to any claim. We reserve the right to change the technical data of our products without notice as a result of our own development work or as a result of other technical progress. This technical sheet supplements and replaces all preceding editions.  
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