

### JUBOSIL FX

Silicate Façade Paint

### REVITALCOLOR SI

Micro-Reinforced Silicate Façade Paint

### JUBOSIL ANTIK

Silicate Translucent Wall Paint

#### General Description and Fields of Application

Silicate paints are due to their specific way of chemical bonding to mineral surfaces, especially suitable for the renovations of façade surfaces of architectonic heritage buildings (old-city cores churches, castles, etc.)

**JUBOSIL FX** is an environment friendly and harmless to health façade paint, based on potash water glass (potassium silicate) and organic additives and regarding all its properties, conforms to the DIN 18363 standard. It is alkaline resistant, highly water-repellent, water vapor permeable and resistant to all climate conditions, i.e. smoke, ultraviolet radiation and other environmental factors. JUBOSIL FX is recommended for protection of solid, fine-plastered façade surfaces, without any cracks or other defects and damages.

**Suitable surfaces:** especially new – not yet carbonized – and also old – already carbonized lime and lime-cement plasters. Their surface should be equally structured (equally coarse). Application to old tightly adhered silicate paints and silicate and mineral decorative plasters and also to silicate brick is possible.

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

It is not recommended for protection of concrete.

#### Composition

Potash water glass (potassium silicate) and water-based acrylic binders, extenders, inorganic pigments, special additives.

**Colour shades:** white, different shades on the colour chart PAINTS AND PLASTERS (JUMIX System)

**REVITALCOLOR SI** is a potash water glass (potassium silicate) and organic additives-based, micro-reinforced silicate façade paint. It is environment friendly and harmless to health. It is alkaline resistant, highly water-repellent, water vapor permeable and resistant to all climate conditions, i.e. smoke, ultraviolet radiation and other environmental factors.

REVITALCOLOR SI is recommended for painting of solid, course-plastered façade surfaces and for painting of fine-plastered surfaces, where hairline cracks are visible (up to 0.3 mm wide). It is also used as an equalizing coating for mineral and silicate decorative plasters.

**Suitable surfaces:** especially new – not yet carbonized – and also old – already carbonized lime and lime-cement plasters, mineral and silicate decorative plasters. Application to old tightly adhered silicate paints and silicate and mineral decorative plasters is possible.

**Unsuitable surfaces:** surfaces painted with chalk-based (water dissolving coats), surfaces painted with acrylic or silicone coatings, oil paints, lacquers or

enamels, plastic compounds and wooden surfaces.

It is not recommended for protection of concrete.

#### Composition

Potash water glass (potassium silicate) and water-based acrylic binders, extenders, inorganic pigments, special additives and micro-reinforced fibers.

**Colour shades:** white, different shades on the colour chart PAINTS AND PLASTERS (JUMIX System).

**JUBOSIL ANTIK** is an environment friendly and harmless to health translucent façade paint, based on potash water glass (potassium silicate) and organic additives and regarding all its properties, conforms to the DIN 18363 standard. It is alkaline resistant, highly water-repellent, water vapor permeable and resistant to all climate conditions, i.e. smoke, ultraviolet radiation and other environmental factors. JUBOSIL ANTIK is intended for a decorative treatment of façade and interior fine plastered wall surfaces. The distinctive transparency of the paint and special technique of application give the surface an interesting old look.

**Suitable surfaces:** especially new – not yet carbonized – and also old – already carbonized lime and lime-cement plasters. Application to old tightly adhered silicate and lime coatings and also to tightly adhered JUPOL

coatings (when decorating the interior surfaces) is possible.

**Interior** smooth, flat surfaces (such as gypsum-cardboards, concrete, fibre cement and old coats of emulsion paints) pre-coated with JUBOSIL GF, special adhesion improving undercoat may be finished with JUBOSIL ANTIK.

**Unsuitable surfaces:** exterior surfaces painted with façade coatings and all surfaces painted with chalk-based (water dissolving coats), oil paints, lacquers or enamels, plastic compounds and wooden surfaces. It is not recommended for the protection of concrete.

### Composition

Potash water glass (potassium silicate) and water-based acrylic binders, extenders, special additives.

**Colour shades:** translucent white, different shades on the colour chart PAINTS AND PLASTERS (JUMIX System).

### Substrate

All silicate paints chemically bond to mineral surface (lime, cement). 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 painting.

### Application of paint

Prior to application of paint apply appropriate primer to the clean surface.

JUBOSIL FX is applied with a roller, brush or by spraying.

Tested with the following spraying systems:

Farbmeister W, Finish, Superfinish, Airless EP and Fine Coat (WAGNER GmbH) and LM-92/K and Airless 4000 F (SATA GmbH).

REVITALCOLOR SI is applied with a roller or brush only.

JUBOSIL ANTIK demands a special technique of application.

Mix the paint well and thin it appropriately for the technique and condition of application; thin it with up to 50 % thinned JUBOSIL GX (JUBOSIL GX : water = 1 : 1). The paints of the same kind, but different colour shades, can be mixed together in any proportion.

Apply the paint on interior wall surfaces in one, two or three coats and on façade surfaces in two or three coats, usually using larger flat brush, long-bristle roller and also a cloth, pad, sponge, etc. Apply the second or third coat in the "wet on wet" technique – before the previous coat dries, "wet on dry" technique of application is also possible – the previous coat must be in normal conditions (T = +20 °C, R.H. = 65 %) dried at least 2-4 hours. Typical spotted surface will be achieved, if the thickness of individual coat will be as irregular as possible.

It is recommended, that heavily spotted, dark and very dirty interior wall surfaces are prior to application of JUBOSIL ANTIK, pre-coated with special undercoat JUBOSIL GF and façade surfaces with standard silicate façade paint JUBOSIL FX (at least one-coat application; drying time at least 12 hours).

**ATTENTION!** Prior to application of silicate paints and renders, protect window glasses, window frames, doorframes and window shelves thoroughly. **Eventual stains cannot be removed.** Eventual covering of "dried" coatings of JUBOSIL FX is due to chemical bonding to the surface, visible.

	JUBOSIL FX	REVITALCOLOR SI
<b>Application</b>	Brush, roller, spraying: always at least 2 coats	Brush, roller always at least 2 coats
<b>Primer</b>	<ul style="list-style-type: none"> <li>▪ JUBOSIL GX : water = 1:1 ( app. 120 ml/m<sup>2</sup>)</li> <li>▪ JUBOSIL GX : JUBOSIL FX : water = 1 : 1 : 1 (JUBOSIL GX app. 80 ml/m<sup>2</sup> JUBOSIL FX app. 65 ml/m<sup>2</sup>)</li> </ul>	<ul style="list-style-type: none"> <li>▪ JUBOSIL GX : water = 1:1 (app. 120 ml/m<sup>2</sup>)</li> <li>▪ JUBOSIL GX : REVITALCOLOR SI : water = 1 : 1 : 1 (JUBOSIL GX app. 80 ml/m<sup>2</sup> REVITALCOLOR SI app. 55 ml/m<sup>2</sup>)</li> </ul>
<b>Consumption</b>	App. 250 ml/m <sup>2</sup> by two coat application.	App. 300 - 700 ml/m <sup>2</sup> by two coat application.
	Depends on coarseness and absorption of the substrate. Exact coverage can be estimated on the site.	
<b>Drying time (20°C, 65 % R.H.)</b>	Dry to touch: app. 4 – 6 hours . Dry to recoat: min. 12 hours.	
<b>Protect against rainfall</b>	app. 24 hours	
<b>Thinning, tinting</b>	If necessary with <b>JUBOSIL GX</b> up to 10%. <b>Mix the paint well before diluting or tinting. If the paint is tinted in separate containers, equalize the paint colour by mixing it together.</b>	
<b>Packaging</b>	Plastic containers 5 l, 16 l	
<b>Storage</b>	12 months, PROTECT FROM FREEZING, keep from direct sunlight.	

	JUBOSIL ANTIK		
	INTERIOR SURFACES		FAÇADE SURFACES
<b>Primer/Undercoat</b>	lime-cement plasters	gypsum-cardboards, concrete, fibre cement and old coats of dispersion paints	lime-cement renders
	JUBOSIL GX : water 1 : 1 or JUBOSIL ANTIK : water 1 : 1	JUBOSIL GF (special adhesion improving undercoat)	JUBOSIL EX
<b>Consumption</b>	first coat: app. 100 ml/m <sup>2</sup> , each additional coat: app. 60 ml/m <sup>2</sup>		
	Depends on coarseness and absorption of the substrate. Exact coverage can be estimated on the site.		
<b>Drying time (20°C, 65 % R.H.)</b>	Primer: dry to recoat: min. 12 hours		
	Intermediate coats: 2 - 4 hours, "wet on wet" application is also possible.		
<b>Protect against rainfall</b>	app. 24 hours		
<b>Thinning, tinting</b>	Up to 50% with JUBOSIL GX thinned with water 1:1.		
<b>Packaging</b>	Plastic containers 5 l in 10 l		
<b>Storage</b>	12 months, PROTECT FROM FREEZING, keep from direct sunlight.		

### Application Temperature:

Air and surface temperature for application should not be lower than +8 °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 (≥30 km/h), even with such protection.

### Waste Handling

Liquid waste: **EWC: 08 01 12.**  
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.

### Safety at Work

Besides general instructions and regulations for construction and painting works consider that silicate coatings contain potash water glass (potassium silicate) which is irritating to eyes and skin, therefore use appropriate personal protection means while working. In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Keep the product out of the reach of children!

### Tool Cleaning

Thoroughly clean all the tools with water immediately after use.

Technical Data	JUBOSIL FX	REVITALCOLOR SI	JUBOSIL ANTIK
<b>Density (kg/dm<sup>3</sup>)</b>	app. 1,43	app. 1,50	app. 1,02
<b>Water vapour transmission EN ISO 7783-2</b>	<b>μ value (-)</b>	μ < 300	μ < 300
	<b>Sd value (m)</b>	d=100μm: Sd<0,03 Class I high water-vapor permeability	d=150μm: Sd<0,12 Class I high water-vapor permeability
<b>Liquid water permeability w (kg/m<sup>2</sup>h<sup>0.5</sup>) EN 1062-3</b>	W <sub>24 h</sub> <0,2 Class II medium water absorption	W <sub>24 h</sub> <0,1 Class III low water absorption	W <sub>24 h</sub> <0,2 Class II medium water absorption
<b>Gloss</b>	matt	matt	matt
<b>Adhesion to l-c plaster EN 24624 (N/mm<sup>2</sup>)</b>	> 0,5	> 0,5	> 0,5

### Health Integrity

Based on researches at the Institute of public health in Maribor, the dried coats of silicate paints 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**

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 paints 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 paint 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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JUB kemična industrija d.d., Dol pri Ljubljani 28, 1262 Dol pri Ljubljani, SLOVENIJA  
tel.: (01) 588 41 00 h.c., 588 42 17 Sales, 588 42 18 (080/15 56) Technical Support; fax: (01) 588 42 50 Sales,  
e-mail:jub.info@jub.si; http://www.jub.si



ISO 9001 Q-159  
ISO 14001 E-034

