

AURO Silicate Binder No. 304

Material type

Ready-for-application, water glass binding agent for pure silicate paints containing no acrylic binding agents.

Intended use

As a primer and diluent for follow-up coats in combination with AURO Silicate Paint No. 303* for white, matte, interior paint coats.

Technical properties

- Readily workable
- Non-combustible, non-flammable
- Fungicide, algicide effect due to product alkalinity
- Very open-pored (sd value: < 0.05 m)

Composition

Water, potash water glass, potassium citrate. Natural substances may induce allergies. Only our current full declaration is definitive.

Colour tone

Transparent, colourless

Application method

Brush on with mineral paint brush

Drying time under standard climatic conditions (23 °C/ 50% rel. humidity)

- Dry and recoatable after approx. 16 hours
- Thoroughly dry after approx. 48 hours

Density	approx. 1,15 g/cm ³	Hazard Class: Does not apply. See important application information below
Viscosity	Thin	
pH level	approx. 12 (highly alkaline)	
Diluent	Dilute with water for priming. Do not dilute with water for use as additive to Pure Silicate Paint No. 303*.	
Application volume	For priming, diluted 1 : 2 with water, approx. 0.04 to 0.06 l/m ² . Apply thin layers. Thick layers may result in flaking. Determine appropriate application volume by means of test application.	
Cleaning	Remove spots and splashes with water immediately. Clean tools immediately after use with water.	
Storage	Store in a cool, dry place, protected from frost, closed and inaccessible to children.	
Storage stability period	At 18 °C in original, sealed package: 24 months	
Packaging material	Polypropylene. Recycle only packages from which residues have been removed with dried product residues.	
Disposal	Dried product residues only compost or dispose of with household wastes. Liquid residues: EAK Code 080112 or 200128, EAK designation: Paints.	
Important	Due to the potash water glass contained in this product it shows alkaline reactions similar to those observed with lime or cement mortars. Protective goggles with lateral shielding and alkali-resistant protective gloves are recommended during application. Avoid skin and eye contact. In case of skin contact, rinse off immediately with water. In case of eye contact, flush immediately with plenty of water and consult a physician.	

Important application information

- Working temperature min. 10 °C, max. 30 °C, max. 85% rel. humidity, optimum 18 to 25 °C, 40 to 60% rel. humidity.
- Exposure to direct sunshine or moisture must be avoided during processing.
- The normal moisture level of the substrate must not be exceeded.
- Fresh plasters, in particular lime plasters, must be allowed to dry uncoated for at least 6 weeks.
- Stir well before and during application.
- Protect surrounding surfaces before beginning with application.
- Carry out test application before applying to large surface areas.
- Avoid splashing and paintovers and remove immediately.
- Pure silicate paints may dry to produce a typical, slightly cloudy surface, depending on the substrate properties and the application volume.

Technical application recommendations

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1. SUBSTRATE

1.1 Suitable substrates

Mineral, untreated, absorbent, silicifiable surfaces (plasters, concrete, sand-lime brick, old silicate paints), for interior use.

1.2 General substrate requirements

- The substrate must be firm, dry, absorbent, wettable with water, clean and free of dust, grease and bleeding.
- Completely remove loose parts, dust, soiling, oily substances, moss and algae as well as old coats of paint (with the exception of pure silicate paint) and sintered layers on fresh plaster or concrete surfaces.
- Fill holes, cracks, etc. with material suited to use on the substrate construction material.

2. SUCCESSION OF COATS (PRIMING COAT)

2.1. Substrate preparation

Prime highly absorbent substrates with diluted Silicate Binder No. 304* (1 part No. 304, 2 parts water).

The priming coat must leave no surface excess. Work and rub in thoroughly. Allow to dry for at least 16 hours.

2.2 Base coat:

Apply Silicate Paint No. 303*, diluted with 20% Silicate Binder No. 304 with no accretion edges, wet on wet. Allow to dry for at least 16 hours.

2.3 Intermediate coat

Apply Silicate Paint No. 303*, diluted with 10% Silicate Binder No. 304 with no accretion edges, wet on wet. Allow to dry for at least 16 hours.

2.4 Final coat

Apply Silicate Paint No. 303* undiluted. The final coat is not required if the desired result was already achieved with the intermediate coat.

For pastel tinting, stir max. 2% alkali-resistant mineral pigments into the AURO Silicate Paint No. 303*. Tinting can also be done before the base coat is applied. Ask about factory tinting to achieve stronger tones.

3. SUCCESSION OF COATS FOR RENOVATION

3.1 Substrate type: Intact surface (maintenance)

3.1.1 Substrate preparation

Sweep or vacuum stably adherent old coats, clean thoroughly. Heavy soiling must be washed off.

3.1.2 Base coat: Not required if old paint is intact.

3.1.3 Intermediate coat: Not required if old paint is intact.

An intermediate coat as per 2.3 is recommended on strongly coloured substrates.

3.1.4 Final coat: As described under 2.4.

3.2 Substrate type: Heavily worn or damaged surface (repair)

3.2.1 Substrate preparation

Remove poorly adherent, flaking old coats completely.

3.2.2 Base coat

Prime as described under 2.1 as required, e.g. on surfaces that are highly or unevenly absorbent.

3.2.3 Intermediate coat: As described under 2.2.

3.2.4 Final coat: As described under 2.4.

*See the corresponding Technical Data Sheets.

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