Technical data sheet

Aviva Tirokat-Color 4087

Mineral silicate façade paint for DIY and professional use

PRODUCT DESCRIPTION

General

Water-based, mineral, highly opaque silicate façade paint in accordance with DIN 18363. The product is non-film-forming, non-flammable and low-stress, and chemically bonds with the substrate (silicification). The product is characterised by excellent water vapour permeability (s_d value) combined with very good water resistance, high CO_2 permeability, as well as an algae- and fungal-inhibiting effect due to increased alkalinity. Resistant to industrial emissions

Special properties and standards

- **Colour fastness as per BFS data sheet no. 26**
  Class B, Group 1

- **French ordinance DEVL1104875A**
  Marking of construction coating products for their emission of volatile pollutants: A+

- Characteristics in accordance with **DIN EN 1062**:

Gloss:	matt	G_3
Dry film thickness:	100 - 200 µm	E_3
Max. grain size:	< 100 µm	S_1
Water vapour permeability (sd-value):	< 0.14 (high)	V_1
Water permeability (w-value):	> 0.1 - ≤ 0.5 [kg/(m²×h^{0,5})] (medium)	W_2

- With facade surfaces that are exposed to higher-than-normal moisture loads due to site-specific conditions or natural weathering, there is an increased risk of mould and algal growth.

Application area

High-quality façade coating for mineral substrates (e.g. lime renders, lime-cement and cement renders, natural stone, sand-lime brick, brick masonry).

Renovation over firmly adhering mineral coatings.

Intact external thermal insulation composite systems (ETICS).

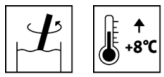
For dispersion or silicone resin coatings, we recommend Aviva Tirosilc-Color (4086).

ADLER-Werk Lackfabrik, Bergwerkstraße 22, A-6130 Schwaz
Fon: +43/5242/6922-190, Mail: technical-support@adler-lacke.com, www.adler-coatings.com

Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

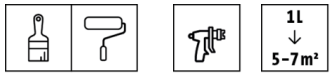
PROCESSING

Processing instructions



- Please stir the product before use.
- A product, object and room temperature of at least + 8 °C is required.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.
- Do not process it under conditions of intense sunlight, rain, extremely high humidity, strong wind or pending frost.
- Be sure to cover any surfaces that are not being treated. Remove paint splashes immediately with water.
- To avoid crusts apply the coat at one stroke using the wet-on-wet method.
- Signs of touch-up work on the surface depend on several factors and hence, cannot be avoided (BFS data sheet 25).
- **Cover glass, ceramic, natural stone, clinker, metal and coated surfaces well.**
- Observe BFS Information Sheet No. 9 in accordance with coatings on mineral exterior render.
- If the coating material is excessively thinned, the properties of the coating (e.g. coverage, colour, durability) may be impaired.
- The color shade, compatibility and adhesion to the substrate must be checked by creating sample panels.
- When applying, ensure even application and distribution of the coating material in order to achieve the required thickness for effective protection.
- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result. Deviations lead to film and adhesion problems as well as to impairments with regard to weathering and colour shade stability.

Application technique



	Airless	Brushing	Rolling
Spraying nozzle Ø (mm)	0,53 - 0,63	-	
Spray nozzle (Ø inch)	0,021 - 0,026	-	
Nozzle angle (°)	50	-	
Spraying pressure (bar)	150 - 180	-	
Fine strainer (µm)	200	-	
Diluent	Aviva Silikat Grundierung (4079), 1:1 water		
Diluent amount added (%)	5 - 10		
Applied quantity per application (ml/m²)	150 - 200		
Yield per application (m²/l)	5 - 7		

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying times

(at 23 °C and 50 % rel. humidity)



Recoatable after	approx. 12 hour(s)
Rainproof	approx. 24 hour(s)

The figures given above are reference values.

The drying time depends on the type of substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

	Lower temperatures and/or high level of atmospheric humidity can increase the drying time. Avoid direct sunlight!
Cleaning the working equipment 	With soap-water immediately after use.

SUBSTRATE

Type of substrate	Mineral plasters / Mineral façade coatings / External thermal insulation composite systems (ETICS)
Substrate property	The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, etc. and free from dust, as well as tested for suitability for coating. Please observe the additional documents: • ÖNORM B 2230-2 • DIN 18363 • ÖNORM B 3430-1 • Current BFS information sheets
Substrate preparation	Pre-treat absorbent or chalking substrates for consolidation, levelling and adhesion promotion with Aviva Silikat-Primer (4079), diluted 1:1 with water. In the case of highly absorbent and sanding plaster substrates, apply two coats of Aviva Silikat-Primer (4079) diluted 1:1 with water, wet on wet. Touch up small cracks, holes or unevenness using a suitable filler. Renovate cracks down to the plaster substrate using a permanently elastic coating system. Treat algae, green deposits or mould in outdoor areas with Aviva Fungisan (8308). **Plasters of mortar groups P I, P II and P III** Allow new plaster application to remain untreated for 3 to 4 weeks. Re-plastered patches must be set well and dried up. If necessary, treat with fluosilicate. Grind off any sintered coat remaining. Base coating with Aviva Silikat-Primer (4079) diluted 1:1 with water. **Stable mineral coatings** Clean old plaster by using suitable methods. If using a wet cleaning method, allow the surfaces to dry up completely before further treatment. Base coating with Aviva Silikat-Primer (4079) diluted 1:1 with water. Remove old coatings that cannot be recoated.

COATING SYSTEM

Primer coat	See substrate preparation
Intermediate coat	1 x Aviva Tirokat-Color (4087) Depending on the absorbency of the substrate and to improve substrate silicification, add a maximum of 10% Aviva Silikat-Primer (4079), diluted 1:1 with water.
Finishing coat	1 x Aviva Tirokat-Color (4087)

Depending on the absorbency of the substrate and to improve substrate silicification, add a maximum of 5% Aviva Silikat-Primer (4079), diluted 1:1 with water.

ORDERING INFORMATION

Size of trading unit

1 l, 3 l, 9 l, 15 l

Colour shades / Glosslevels

Color4You

Base paint(s):
Aviva Tirokat-Color W10 Weiß, tönbar (4087000010)
Aviva Tirokat-Color Basis W20 (4087000020)
Aviva Tirokat-Color Basis W30 (4087000030)

Colour shades can be obtained using the **ADLER colour mixing system Color4you**.

In order to ensure uniformity of the colour shade, use only material with the same batch number on a given surface.

It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.

In case of dark colour shades, mechanical stress may lead to bright stripes (writing effect). This is a product-specific characteristic of all matt façade paints.

Due to the system, when using coloured mineral paints, care should be taken that they are processed quickly in order to prevent colour differences when the paintwork overlaps.

If applying subsequent corrective coats of paint, colour differences are unavoidable.

For coatings on external thermal insulation composite systems (ETICS), the light reflectance value should be greater than 30.

Please consume blended products within 3 months.

Please observe our **ARL 800 - Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines.**

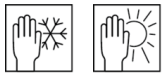
Supplementary products

Aviva Silikat-Primer (4079)
Aviva Fungisan (8308)
Aviva Tirosilc-Color (4086)

Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage



Min. 2 year(s) in the original sealed containers.

Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C).

Close opened containers well and use up the content as soon as possible.

Declaration of ingredients according to VdL-RL 01

acrylic dispersions / Silicone resin emulsion / Sodium silicate / inorganic white and coloured pigments / mineral agents / water / interface additives / surface additive / rheology additives

Technical specifications

VOC content: Limit value according to Directive 2004/42/EC for Aviva Tirokat-Color (Cat. A/c): 40 g/l. Aviva Tirokat-Color contains 20 g/l VOC.

Giscode

BSW10

Safety information



The usual protective measures must also be observed when processing low-pollutant products.

The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2).

Aviva Tirokat-Color is highly alkaline.

Avoid contact with skin and eyes.

Do not allow to enter drains, water courses or soil.

Only dispose of containers emptied of all residues for recycling, liquid material residues can be disposed of as water-based paint waste, dried material residues as hardened paint or as household waste.

Further information on the subject of safety during transport, storage and handling as well as disposal can be found in the relevant safety data sheet. The current version can be accessed on the Internet at **www.adler-lacke.com.**