

## Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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# KNAUF

Plaster & Façade Systems

## B131T.de

Product Data Sheet

2021-12



# Autol TSR

Reflection-optimized premium silicone resin façade paint with self-cleaning effect

## Product description

Highly vapour permeable, matt-finish silicone resin façade paint with self-cleaning effect. Reflection-optimised, reduced heat-up due to solar radiation and increased resistance to cracking on the substrate.

## Composition

Silicone resin emulsion, polymer dispersion, water, fillers, additives, colour pigments, preservatives.

## Storage

The material can be stored for at least 24 months in the original container in a cool and frost-free environment. Close opened buckets airtight.

## Quality

The product is subject to continuous factory production control and is compliant to EN 1062-1 as well as DIN 18363 section 2.4.1.

## Properties and added value

- For exterior use
- With self-cleaning effect
- Highly colour shade fast
- Reduced heatup due to solar radiation and thus assures greater resistance to cracking on the substrate
- Highly vapour permeable
- High filling capacity
- TSR-optimized, ensuring that dark colour shades (luminosity  $\leq 20$ ) are possible on WARM WALL systems

## Field of application

Autol TSR is suitable for painting white, mineral and organic bonded top coats on freshly finished exterior WARM WALL systems, on which a coating with a luminosity  $< 20$  is to be applied.

### Application

<b>Caution</b>	Autol TSR is not just suitable for application on new, pure white finishing plasters.
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### Substrate and pretreatment

Substrate	Pretreatment
New mineral based renders (e.g. Noblo, SP 260)	After sufficient drying time (minimum 7 days), apply a primer coat with Casiol Grund
New organic top coats (e.g. Addi S, ConniS)	After sufficient drying time (generally 1 day per mm layer thickness, however at least 3 days), apply directly without pretreatment

### Preparation

Check substrate for compliance with VOB part C, DIN 18350, DIN 18345 chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 no. 3. Clean the substrate of dust and remove loose parts, ensure that the surface is smooth. Also carefully cover the area surrounding the area to be painted, in particular glass surfaces, ceramics, lacquered surfaces, clinker, natural stone, metals as well as floor coverings.

Preparation of the substrate in accordance with the substrate and pretreatment table. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion. Please observe BFS Code of Practice 9, section 5.2 (German only). Test existing coats (paint coats and old renders) for stability and compatibility before application of Autol TSR.

Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdeckerarbeiten für Maler- und Stuckateurarbeiten - Masking and covering for painting and stucco work" (German only) issued by the Bundesverband Ausbau und Fassade.

Protect weather-exposed surfaces from precipitation and direct sunlight. Allow primer coats to dry for at least 12 hours before continuing work.

### Application

Before work commences, check colour and batch numbers on all buckets as well as the colour shade by sampling (trial coat) to ensure it is correct. Never apply the content from different buckets together on a common wall. Mix the contents together in a clean bucket beforehand. Stir the contents of the bucket thoroughly before and during work. To protect against solar heating and to achieve the rated opacity, it is absolutely necessary to apply at least 2 coats.

Apply a generous, uniform and undiluted coat of Autol TSR or diluted by maximum 5 % by weight with water to the substrate. Use clean water when diluting but do not use additives. On surfaces with different suction properties, a primer coat diluted by water with maximum 10% by weight may be necessary. Apply an undiluted finishing coat. The paint can be applied with a brush or roller. If Autol TSR is diluted too much, the opacity as well as the application properties deteriorate. Work "fresh-in-fresh" in a single work step to avoid the formation of visible edging. Subsequent renovations/improvements should also be implemented using Autol TSR.

### Application temperature/climate

Do not apply material at air and/or substrate temperatures below +5 °C and above +30 °C. Protect fresh coats from the effects of moisture, e.g. from precipitation and from the effects of rapid water loss, e.g. by exposure to direct sunshine or strong wind, by protecting with suitable measures such as protective nets. Do not apply Autol TSR onto preheated substrates.

### Application time

Autol TSR is touch dry at +20 °C and 65 % relative humidity after approx. 12 hours. The times are extended at lower temperatures and/or higher levels of air humidity. Ensure a drying time of at least 24 hours between coats. Fully dry and ready-to-use after at least 3 days.

<b>Note</b>	Paint coats have to be applied according to DIN 18363 VOB part C section 3 as well as the generally recognized building engineering rules and valid guidelines. Differences in the colour shade and surface shading may occur due to different weather-related and building site conditions.
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<b>Note</b>	When reordering, always state the consignment number. Repeat orders are possible within a maximum of 6 months. Further pigmentation of the paint with pigment concentrates etc. is not permitted. On Autol and Autol TSR, the colour shade may vary due to the pigment even though the colour shade codes are identical. Should dark coloured surfaces be exposed to high mechanical loading, the colour may change at affected locations (crazing). This does not affect the product quality and functionality. Depending on the colour shade, there may be a reduced opacity with very bright, intensive colour shades. We recommend application to a trial surface. If necessary, an additional final coat may be required.
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<b>Note</b>	Autol TSR is formulated to control and inhibit growth of algae and fungi. Permanent protection against algae and mould cannot be guaranteed, as the susceptibility depends on the local and environmental conditions.
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<b>Note</b>	When using Autol TSR on new WARM WALL systems, the reinforcement layer must be at least 5 mm. Please pay careful attention to application (diagonal reinforcement).
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**Technical data**

Description	Standard	Unit	Autol TSR
Gloss	EN ISO 2813	Category	G <sub>3</sub> , matt
Dry film thickness	EN 1062-1	Category	E <sub>3</sub> , > 100 ≤ 200 µm
Grain size	EN ISO 1524	Category	S <sub>1</sub> , < 100 µm, fine
Water vapour transmission rate	EN ISO 7783-2	Category	V <sub>1</sub> , high
Liquid water permeability	EN 1062-3	Category	W <sub>3</sub> , low
Colour shade durability	BFS code of practice no. 26	Category	B
Density	–	kg/l	1.54
VOC content	Directive 2004/42/EC, annex II, table A (Limit value product sub-category c: 40 g/l)	g/l	< 40

*The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.*

**Material requirement and efficiency**

Surface	Application	Consumption approx. l/m <sup>2</sup>	Yield approx. m <sup>2</sup> /bucket
Smooth	2 coats	0.25	50.0
Rough	2 coats	0.40	31.0

*The exact consumption can only be determined with a test application on the individual object.*

**Product range**

Description	Application	Paint	Packaging unit	Material number	EAN
Autol TSR	12.5 l	Pigmented	32 buckets / pallet	00748319	4003950141652



**Observe safety data sheet!**

For safety data sheets and CE marking see

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