

# Prokol FerroTek 625

## Description and application

Prokol FerroTek 625 is a high-solid, 2-component coating based on polyaspartic with special mechanical properties. Prokol FerroTek 625 is applied as a finish and protection on metal surfaces and has corrosion-resistant properties, a high mechanical resistance and a high weather resistance at minor layer thicknesses (120 microns).

Prokol FerroTek 625 is a fast drying coating. Forced drying through heat is not necessary. Due to its properties the coating has a broad applicability and in this respect surpasses powder coatings.

## Article number and packaging

17625-5	5 kg set
17625-10	10 kg set

## Properties

- Anti-corrosive
- Extremely wear-resistant
- High UV resistance
- Performance characteristics are already achieved at minor layer thicknesses
- Fast drying without the application of heat
- Shortens the turnaround time within a production process
- Easy to clean
- Thin layers with maximum performance
- Hardly any product residue attachment
- Top coating for heavy-duty coating systems
- Up to 90% VOS reduction
- Up to 65% CO<sub>2</sub> reduction

Wear-resistance Taber	58 mg
	1000 cycles, 1000 g load, CS10
	17 mg
	1000 cycles, 1000 g load, CS17

## Independently tested for:

Hardness – BS AND ISO 1580	<b>Complies</b>
Cross Cut adhesion – BS AND ISO 2409	<b>Complies</b>
Submersion in water – ISO 2812-2	<b>Complies</b>
Humidity – ISO 11503	<b>Complies</b>
QUV – ISO 11507	<b>Complies</b>
Taber wear resistance – ISO 5470-1	<b>Complies</b>
Impact resistance – ISO 6272-1	<b>Complies</b>
Solvent resistance – ISO 2812-1	<b>Complies</b>
Cleanability – ISO 2812-1	<b>Complies</b>
Corrosion resistance – ISO 1197-1	<b>Complies</b>
Salt spray test – ISO 9227-NSS	<b>Complies</b>

This extensive report is available on request.

## Thermal

Load	Dry heat
Permanent	+80 °C
Brief (a maximum of 7 days)	+100 °C
Brief (a maximum of 12 hours)	+120 °C

Short-term wet heat up to a maximum of +80 °C and only occasionally, for instance when steam-cleaning. Simultaneous chemical and mechanical loads are not permitted.

## Properties liquid product

Colour	RAL 7032
Finish	Gloss <i>Novo Gloss Trigloss 60 degrees. 40 degrees after 96 hours.</i>
Density	1,30 kg /l mixed product A component 1,37 kg /l B component 1,14 kg /l
Viscosity*	320 MPa mixed product A component approx. 220 MPa B component approx. 610 MPa
Volume solids	>93%
VOC quality	94 g/l
Shelf life	In original and unopened packaging; 12 months at a temperature of between 5 °C and 40 °C.

## Application information

Method	Brush, roller, cup gun, air mix and air-less
Usage	0,12 kg/m <sup>2</sup> /layer
Theoretical usage	6 – 10 m <sup>2</sup> /l
Practical usage	Depending on the object and conditions.
Mixing ratio	3 volume parts base: 1 volume part hardener
Potlife**	Approx. 25 minutes <i>The viscosity will increase during processing.</i>
Spraying pressure	80 – 160 bar 2-K air mix, nozzle 15" 40/60 degrees.
Coverage	Very high covering capacity at minor layer thicknesses of approx. 50 µm. For some colours a 2 <sup>nd</sup> layer could increase the covering capacity.
Layer thickness	80 – 120 µm <i>Depending on application method.</i>
Recoat time*	After 4 hours
Dust dry*	After 35 minutes
Handling*	After 55 minutes
Dilution	ProFast TH-S. A maximum of 3%, depending on the used equipment, application method and temperature of the mixed product. Do not add

\* At 20 °C and 65% RH surface.  
\*\* At 1 kg and 20 °C product.



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	until base and hardener have been mixed.
Cleaning agent	Roca Cleaner R5518 (equipment)

The times and values given are approximate and are affected by fluctuating surface and environmental conditions such as (product)temperature, relative humidity and layer thickness.

## Mixing instructions

2-component products must always be mechanically mixed, preferably with a continuously adjustable mixing machine on low speed (300 – 400 RPM) or other suitable mixing equipment. Use a clean mixing rod which matches the size of the container. Mixing too fast and too long should be avoided in order to minimise air entrapment.

First mix component A until it is a homogenous mixture. Add component B (completely drained or scraped) to component A and mix at least 2-3 minutes until it is a homogenous mixture. To exclude unmixed materials (bottom/sides) are processed, transfer the mixture to a clean mixing bucket/tub and mix again.

When using additives such as quartz sand or the like, only add when the mixture is a homogenous mixture. After adding, please mix thoroughly again.

When mixing parts, both components must be mixed separately and carefully and weighed accurately.

## Notes during application

Allow the material to acclimatize for at least 24 hours. Avoid wide temperature differences between the product and the surface as this could have an adverse effect on the end-product.

2-component products may only be applied when the relative humidity is between 35 - 90%. High humidity will result in faster curing and low humidity will result in slower curing. The potlife is partly dependent on the product temperature.

## Surface and circumstances

Moisture content surface

- cement-bound : < 4% CM (parts by weights)
- plaster-bound : < 0,5% CM (parts by weights)

## Metal surfaces

The surface must be clean and free of dirt, dust, grease and oil. Prior to applying the coating, it is recommended to clean the surface with a suitable alkaline cleaning agent.

System 1

- Blasted surface Sa 2,5, (ISO 8501-2).

- Ensure a dust-free surface and treat with Prokol FerroTeq 125-AC (see user instructions).
- Apply Prokol FerroTeq 625 with a layer thickness of 80 to 120 microns.
- For some colours a 2<sup>nd</sup> layer could increase the covering capacity.

System 2

- Pre-treat the surface with a suitable phosphate primer.
- After the phosphate primer has dried, Prokol FerroTeq 625 can be applied.
- Apply Prokol FerroTeq 625 with a thickness of 80 to 120 microns.
- For some colours a 2<sup>nd</sup> layer could increase the covering capacity.

## Important

Projects and applications can vary greatly. Always contact your supplier if you have doubts about a certain application, choice of material or surface treatment.

All the technical information given in this technical information sheet is based on laboratory tests. Information can change, depending on the conditions.

## Legal notification

The information and, in particular, the recommendations concerning the application and final use of Prokol products is issued in good faith based on Prokol's current knowledge and experience of products that are correctly stored, handled and applied under normal conditions.

In practice, the differences in materials, surfaces and local conditions are such that no guarantee can be given concerning the marketability or suitability for a certain objective, nor can any liability arise from any legal relationship based on this information, nor from any written recommendations or other advice that is given. The property rights of third parties must be respected.

Prokol guarantees that its products are free from manufacturing faults. Multi-component products are a finished product once the components have been mixed and processed. When mixed and processed correctly, the product will achieve the specifications given. Prokol can only guarantee the product when surfaces are processed and pre-treated correctly.

All orders are accepted under the current sales and delivery conditions. Users must always refer to the most recent product safety information sheet and product information sheet for the product concerned.

\* At 20 °C and 65% RH surface.  
\*\* At 1 kg and 20 °C product.



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Copies of the most recent editions are provided upon request and are available at [www.prokol.com](http://www.prokol.com).

The publication of this product information sheet makes all previous product information sheets for this product invalid.

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