

PROCESSING INSTRUCTIONS

Aquagard coating system:

- **Aquagard primer**
- **Aquagard special sealer**

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FN: 181462-02

Date of issue: 15.08.2024

Basis:

Primer 15.08.2012

Special sealer 10.04.2017

Aquagard primer

Characteristics:

Single-component, solvent-based, saponification-resistant, non-pigmented, very good penetrating impregnation and primer with excellent adhesive strength with excellent adhesion, water and weather resistance as well as a strengthening effect for absorbent mineral substrates.

Application:

Aquagard Primer is used in particular as an adhesion-promoting and consolidating primer for wall surfaces made of concrete, cement plaster, lime-cement mortar, etc. in interior and exterior areas. It can be applied by brushing, rolling and spraying.

Application

Base:	Vinyl copolymer-acrylic resin combination	
Colour:	colourless	
Degree of gloss:	silk matt	
Viscosity (20°C):	low viscosity	
Specific weight:	approx. 0.9 g/cm ³ (kg/litre)	
Solids content:	Weight: approx. 11%	Vol.: approx. 9%
Flash point:	over 23° C	

Processing

Surface preparation:	The surfaces to be coated must be load-bearing and absorbent, dry, free from grease, oil, dust and dirt and free from other substances or foreign matter with a separating effect.	
Concrete / plaster:	Depending on the condition and properties, sand, sweep, vacuum, blow off with oil-free compressed air, high-pressure washing with water or other suitable measures.	
Object conditions:	Ambient and object temperature:	min. +5°C
	Relative humidity:	max. 85%
	Dew point distance:	min. 3°C
Application:	Stir the contents of the container well.	
Key data:	Brushing/rolling:	in delivery viscosity
	Airless spraying:	Spray pressure at the nozzle approx. 50 - 60 bar
	(membran or piston devices)	Nozzle size approx. 0.53 - 0.73 mm
		Spray angle 50 - 70°
	Spraying with air atomisation:	back pressure approx. 0.5 bar
	(low-pressure devices)	Nozzle size approx. 4 mm

The above parameters are recommendations that may need to be adapted to the specific object conditions (e.g. absorbency/porosity of the substrate).

consumption Theoretical: approx. 150 - 250 g/m² (approx. 4 - 6.7 m²/kg), depending on the absorpency of the substrate
practical: The actual practical consumption depends on the specific object conditions and the chosen conditions and the selected application method and should be determined on site by means of a test area

Drying (at 20°C):

Lower temperatures slow down drying and extend the recoating time.

Dust-dry: approx. 20 - 30 min.
tack-free: approx. 40 - 60 min.
Recoatible: after approx. 12 - 16 hrs.
completely dry: approx. 24 hours

Cleaning: Clean tools immediately with thinner during work interruptions and at the end of work.

Shelf life: At least 6 months when stored in cool, dry conditions in unopened original containers.

Safety data: Please observe the current safety data sheet.

Aquagard Special sealer

Characteristics:

One-component, solvent-based, thixotropic thick-film coating material with good weather and water resistance, good resistance to atmospheric stress in industrial environments and to acidic or alkaline harmful gases.

Aquagard Special sealer is characterised by very good adhesion properties on aluminium and zinc surfaces as well as many old coatings and is therefore very well suited for one-coat and repair coatings.

Aquagard Special sealer is temperature resistant up to +60°C.

Application:

New and overhaul coatings for atmospherically stressed structures, components, containers made of steel, galvanised steel or aluminium, both indoors and outdoors. Depending on the substrate, Aquagard Special sealer is used with suitable primers or alone

Data

Base: Vinyl copolymer/acrylic resin combination
Colour: according to RAL colour chart or customer request.
Slight colour deviations due to batch and raw material are possible.
Pigments: organic and/or inorganic tinting pigments, mineral, spherical and platelet extenders.
Degree of gloss: silk matt
Viscosity (20°C): structurally viscous and thixotropic
Specific weight: approx. 1.2 g/cm³ (kg/litre)
Solids content: Wt.: approx. 59% Vol.: approx. 42%
Layer thickness: approx. 60 - 100 µm dry (approx. 140 - 240 µm wet)
Flash point: above 23°C (formerly VbF All)

Processing

- Surface preparation: The surfaces to be coated must be free of scale/rolling skin, dry, free of rust, grease, oil, dust and dirt and free of other substances or foreign matter with a separating effect.
- Steel: Clean, derust and repair corrosion and damaged areas in accordance with the system.
- Object conditions: Ambient and object temperature: min. +5°C
Relative humidity: max. 85%
Dew point distance: min. 3°C
- Applikation: Stir the contents of the container thoroughly, including the base and wall of the container. The specified layer thicknesses can be achieved with airless spraying. The processing method is Achieving a uniform layer thickness and appearance depends on the application method. The excessive addition of solvent reduces both the stability and the possible coating thickness. Before starting work, we recommend creating a test area on the object to check whether satisfactory results can be achieved with the selected application technique and this product.
- Key data:
- | | |
|-----------------------------------|---|
| Airless spraying: | Spray pressure at the nozzle min. 180 bar
Nozzle size approx. 0.33 - 0.53 mm
Spray angle 40 - 80°
0 - 5% thinner addition |
| Spraying with
Air atomisation: | back pressure 3 - 5 bar
Nozzle size 1.5 - 2.5 mm
5 - 10% thinner addition |
| Brushing/rolling: | Recommended only for smaller areas / repairs. In this case, the target layer thickness may only be achieved with increased effort, additional passes may be necessary.
0 - 5% thinner addition |
- The above parameters are recommendations that may need to be adapted to the specific object conditions.
- consumption: Theoretical: approx. 230 g/m² (approx. 4.4 m²/kg) at 80 µm TFD
Practical: approx. 325 g/m² (approx. 3.1 m²/kg) at 80 µm TFD incl. approx. 30% material loss
- The actual practical consumption depends on the specific object conditions and the selected application method and should be determined on site by means of a test area in case of doubt.

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Drying (at 20°C and 80 µm TFD):

Lower temperatures and/or higher film thicknesses slow down drying and extend the recoating time.

Dust-dry:	approx. 30 - 45 min.
tack-free:	approx. 1 - 1.5 hrs.
Recoatable:	after approx. 12 - 16 hrs.
completely dry:	after approx. 10 - 14 days
Forced drying:	30 - 45 min. at 40 - 50°C is possible. The adhesive strength is improved.

Cleaning: Clean tools immediately with thinner when work is interrupted and at the end of work.

Shelf life: At least 6 months if stored in cool, dry conditions in unopened original containers.

Safety data: Please observe the current safety data sheet.

Our information and technical application advice, whether verbal, in writing or by means of tests, is given to the best of our knowledge but is not binding. The above information is based on our knowledge and experience under normal circumstances, provided that the products have been stored and used correctly. The user must test the products for their suitability for the intended use. The guarantee of a work result cannot be established from our instructions due to other conditions beyond our control during processing. Any industrial property rights of third parties must be observed. Our current terms and conditions of sale and delivery apply.

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