BERGOLIN HYDRO-GRUNDIERUNG 3P202-L

Series 3P202-L · Water-based 1K hydro primer / single-coat with fast drying and corrosion protection

01 PRODUCT DESCRIPTION

Bergolin Hydro-Grundierung 3P202-L is a water-based single-component hybrid primer that can also be used as a single-coat finish. It combines excellent corrosion protection with fast drying, thereby enabling short cycle times in industrial series coating. As a water-based formulation it allows particularly low-emission working and can be overcoated with most solvent-borne and water-thinnable 1K and 2K coatings. The primer adheres reliably to steel, phosphated surfaces and galvanized steel sheet and, after curing, forms a mechanically resistant, temperature-resistant protective layer (−50 °C to +160 °C). It can be applied flexibly by spray and dip coating and is thus ideally suited to the industrial corrosion protection of metal components.

02 PRODUCT PROPERTIES

Binder system	Hybrid system
Adjustment thinner	Water
Cleaning thinner	Clean equipment with water; if required, clean with Hydro Thinner 5P048.
Characteristics	Single-component · Waterbased · Corrosion protection · Fastdrying · Overcoatable
Color shade	Grey-black (further color shades on request)
Gloss	Matt to satin gloss
Shelf life	Approx. 12 months in the unopened original container at +4 °C to +40 °C. Protect from heat and cold.
Thermal resistance	-50 °C to +160 °C (discoloration possible)

Property	Comp. A	Comp. B	Mixture
Density · DIN EN ISO 2811-1 · +20 °C *¹	Approx. 1.25 g/cm³	–	–
VOC content · IE Directive 2010/75/EU *¹	Approx. 92 g/l	–	–
Solid content (wt.-%) · SDS *¹	Approx. 52 %	–	–
Flow viscosity · DIN EN ISO 2431 · +20 °C	Approx. 60 s (4 mm)	–	–

*¹ *Depending on color shade*

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03 APPLICATION

The following information may vary depending on the application. Please contact your direct contact person for more detailed information.

Substrate	Steel, zinc or iron phosphating, galvanized steel sheet
Surface preparation	The substrate must be clean and free from grease, oil, scale, electrolytes and other contaminants.
Theoretical consumption	Approx. 150 g/m² at 50 µm dry film thickness
Film thickness	Approx. 40 µm dry film thickness
Application method	Spraying Dipping *Spray application e.g. with a gravity cup gun; spray viscosity approx. 35 s (4 mm).*
Application conditions	**Application temperature** > +15 °C **Relative humidity** 40–85 %
Overcoatable[*2]	At a wet film thickness of 100 µm, it can be overcoated after approx. 30 min drying with most 1K and 2K systems (water-thinnable and solvent-borne); a test is generally recommended.

DRYING (AT 40 µM DRY FILM THICKNESS)[*2]

Dust-dry	Approx. 30 min
Handling-dry	Approx. 90 min
Assembly-firm	Overnight
Load-bearing	After 7 days
Fully cured	After 14 days
Note	In cold weather (especially snow and ice), place coated parts outdoors only after full curing.

[*2] *Values are based on laboratory measurements at +20 °C. Lower temperatures and higher humidity slow down drying; higher temperatures and lower humidity accelerate it.*

Packaging	Packaging of coated parts with PU film (at 50 µm dry film thickness) is possible after approx. 24 h drying at room temperature (longer under unfavourable conditions). Due to the variety of packaging films and external conditions, an individual test is always recommended.
Testing	Corrosion protection (salt-spray/constant-climate test, GT 1): primer 240 h · primer + 2K PUR topcoat (50 µm) 720 h. Stone chip rating 2 · temperature −50 to +160 °C · steam jet 80 bar/50 °C — all passed (details on request).

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Compatible systems	The product can be combined with numerous other Bergolin products to form a coordinated coating system. We will be glad to help you determine the suitable system combination – please contact our Technical Service.

04 NOTE

This product data sheet supersedes all previously published product data sheets. The information contained herein is based on practical experience under standard conditions and assumes proper storage and processing. Substrates, materials and working conditions may vary. Therefore, no warranty or liability can be derived from the information contained in this document or from verbal consultation. It is the buyer's responsibility to verify the product's suitability for the intended use. Preliminary trials are recommended. The relevant legal regulations, the leaflets of the BG RCI and the accident prevention regulations of the responsible employers' liability insurance association must be observed. In all other respects, our General Terms and Conditions of Sale and Delivery apply.

MODIFIED BY

25.08.2026 – Martin Krull, Head of Laboratory

APPROVED BY

25.08.2026 – Stefan Eisenmenger, Product Management