DUROFAST AQUA 50

2-component polyurethane coating, water-dilutable, for interior and exterior use. Tested according to SN EN ISO 12944-2018 up to C5M.

Technical information Version
(1.0) 02/26

High-performance 2-component topcoat with outstanding UV resistance due to aliphatic isocyanate. In multi-layer construction, tested according to SN EN ISO 12944-2018 up to C5L or C5M (see properties).

Beschreibung

Areas of application	For coating in steel construction, machinery, metal structures, etc. Durofast Aqua 50 is suitable for spray, roller, or brush application. Tested according to SN EN ISO 12944-2018 up to C5L or C5M, in combination with a suitable primer.	

Core data

Properties	Delivery viscosity	Pasty (stir well before use)
	Density	Approx. 1.41 kg/l
	Solid state	Mixed Approx. 49% by volume (white) Mixed Approx. 64% by weight (white) Comp. A Approx. 58% by weight (white)
	Mixing ratio	8 : 1 by weight
	Pot life	Approx. 2 hours The end of the pot life cannot necessarily be determined visually. Elevated temperatures shorten the pot life. At temperatures above 25°C, the pot life is significantly reduced. If the material thickens or forms foam, it must no longer be used.
	Gloss level	Silk matt
	Shades (stock shades)	White
	Tintable	With DoldColorSystem, manual tinting up to a maximum of 3% is possible with suitable universal tinting pastes.
	Storage life	Store in tightly closed original container for 1 year at 5 - 25°C.
	Processing temperature	Do not process below + 8°C (object temperature), ideal temperature range 15 - 22°C. Protect from direct sunlight.
	Adhesive strength	Gt 0-1 (DIN EN ISO 2409)
	MINERGIE-ECO®	Eco 2
	Environmental label	C

	Highlight	Corrosion protection class (SN EN ISO 12944-2018) C5L 90µm TSD Docamin Primer WV + 60µm TSD Durofast Aqua 50 * C5M 150µm TSD Docamin Primer WV + 130µm TSD Durofast Aqua 50 (Durofast Aqua 50 must be applied in two coats - CO2 bubbling)

Substrate / Processing

Substrates

The substrate must be free of rust, grease, oil, scale, clean, and dry in accordance with standard requirements. The dew point must be observed. Depending on the type of substrate, suitable pre-treatments and primers must be used. Direct coating on substrates blasted to Sa 2.5 in accordance with ISO 8501-1 is possible.

Application

Apply undiluted (if necessary, max. 3% water) using an airless sprayer, e.g., Wagner SF 23, nozzle 308 or 410. The application process must be carried out in a single step. (without adhesive coat)

Drying

Dust-dry (TG1)	After approx. 2 hours
Touch-dry (TG4)	After approx. 5 hours
Reworkable	After approx. 24 hours
Fully dried	After approx. 7 days
Ready for installation (TG6)	After approx. 8 hours

Drying depends on relative humidity, air and object temperature, and layer thickness. The data provided corresponds to standard conditions at 20°C and 65% relative humidity with a wet layer thickness of 100 µm. Curing is delayed at low object temperatures or increased humidity.

Structure

Metal
Blasting Sa 2.5 according to ISO 8501-1
- Primer: Docamin Primer WV
- Top coat: Durofast Aqua 50

Coverage

7 – 9 m^2/kg
Material consumption depends on the method of application, the substrate structure, and the thickness applied. The values provided are average values based on experience.

Tool cleaning

Wash out thoroughly with water immediately. Remove dried layers with universal thinner.

Information

Hazard warnings

For further information see the corresponding EU safety data sheet.

Further information

The SMGV information sheets and the FSO guidelines must be observed.

Important

- Only carry out one work step with Durofast Aqua 50 per day.
- If drying takes longer than 2 days, intermediate sanding is necessary.
- Do not apply thick layers. Above a wet film thickness of approx. 150µm, "CO2 vapor bubbles" may form in the coating film. Please note that pores must be removed (sanding process) and any primer differences must be filled in.
- For intense colors, especially yellow/orange tones, an additional coat may be necessary to achieve complete coverage.
- Do not mix with other products.
- Allow hardened material in open containers to react completely!
- *For outdoor applications, a higher dry film thickness of the topcoat can significantly improve UV resistance/color stability.

Quality and environment

The DOLD ColorSystem is designed as a colour mixing system. It makes you independent of expensive storage and gives you the decisive flexibility in the delivery area. ColorSystem colour concentrates are universal colour pastes with high-quality pigmentation for the production of RAL, NCS, IGP and many other colour shades in the DOLD ColorSystem.

The ExP - Extreme Protection System was developed by Dold and is based on a special binder combination.This ensures long-lasting protection of the coating and provides up to 10 years of gloss stability and chalking resistance in accordance with BFS 26.

The evaluation of paints and varnishes according to the MINERGIE-ECO® standard is based on the environmental label of the Stiftung Farbe Schweiz. Dold AG declares all products on the basis of the environmental label and offers solutions and products for all applications that comply with the MINERGIE-ECO® standard.

With the environmental label, coating materials can be identified in a transparent and clear scheme according to environmental and health protection criteria, as well as suitability for suitability for use. The environmental label creates transparency for the builder, architect, planner and client. All products of Dold AG are classified in the category A to G.

Dold AG was founded on August 01, 1921 by Hans Dold in Wallisellen. Until Dold is still located at the same site and is one of the leading paint and varnish manufacturers in paint manufacturers in Switzerland. In Wallisellen, Dold AG develops and manufactures its innovative range of paints and varnishes for the construction painter as well as for industrial customers.

Swiss paint and varnish factory certified according to ISO 9001 / 14001 / 45001. Dold AG is one of the few one of the few paint and varnish factories which not only has its quality management, management, but also its environmental management system, as well as the occupational safety and health protection processes have been certified. These certifications are a clear commitment for Dold AG towards all its commitment to all its stakeholders.

Environmentally friendly products are a concern for DOLD. The foundation KMU Clima confirms Dold AG's contribution to voluntary climate protection. For this concern all direct emissions of CO2 in form of electricity, heating and mobility are compensated by DOLD to a reforestation project in Uruguay. This is a long-term contribution to climate protection and for the sake of the environment.