Ralston 4S Satin

Universal satin gloss 4-seasons finishing coat based on urethane alkyd resin. PLO

- Can be applied year-round '4 seasons'
- Good outdoor durability
- Fast initial drying
- Good viscosity and (edge) coverage
- Fine satin gloss
- Excellent flow characteristics with low propensity to run
- Easy in applying

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Application

Situation	Exterior
Application	Exterior, as finishing coat on pre-treated wood, metal and plastic in Ralston paint systems.

Colors

Colours	All colours available via the Ralston ALK colour mixing system.

Performance and features

Binder	Urethane alkyd resin
Pigment	High quality pigments
Density at 20°C	Approx. 1.1 kg/dm3
Viscosity at 20°C	Approx. 90 K.U.
Solids content	Approx. 65 volume %
Drying time (20°C / 65% R.H.)	Dust-free after approx. 2.5 hr, tack-free approx. 4 hr, recoatable approx. 18 hr.
Drying time (5°C / 90% R.H.)	Dust-free after approx. 3.5 hr, tack-free approx. 5 hr, recoatable approx. 24 hr.
	Drying times are average values and provided as an indication only; actual drying time will depend on weather conditions, film thickness and choice of colour. Darker colours, applied in lower temperatures will take longer to dry than whites and lighter colours.
Elasticity	6 mm
Gloss level	Satin gloss, approx. 35 G.U. at 60°
	The gloss level is reached after approx. 1 month.

NOTE: The properties and specifications can vary depending on the colour. The values stated are typical.

Processing

Dilution	Ready to use. If necessary, dilute sparingly with white spirit or naphtha.
Tools/equipment cleaning	Turpentine.

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Application temperature / R.H.	Min. 0 ambient and substrate temp., relative humidity max. 90%. Substrate temperature min. 3°C above dew point.
Theoretical coverage	16 m2/l
Practical coverage	Depending on the application method and the substrate, 60 - 85% of the theoretical coverage.
Film thickness	40 microns dry film thickness = approx. 70 microns wet film thickness
Mixing	Stir thoroughly before use.
	Check the dew point regularly when applying at low temperatures. With wood and metal substrates, this can have a major influence on the ability to apply the coating, as well as on the drying and gloss of the applied coating.

Maintenance

Maintenance interval	Approx. 5 years
	Depending on location/ situation, surface to be treated, construction system, applied paint system and colour, mechanical impacting, etc.. The annual cleaning and touching up of damage prolongs the condition of the substrate and the paintwork.

Environment and Health

Flash point (°C)	41
Safety instructions	The user is subject to the national legislation regarding safety, health and environment. For more information and current data, see the latest version of the Safety Data Sheet.
EU limit value VOC	EU limit value for this product A/d: 300 g/l 2010. This product contains a maximum of 300 g/l VOCs.
BREEAM	We herewith conform that our product can be used in compliance with BREEAM International New Construction. As per HEA 9, requirend evidence – completion phase: C 1.1 through to 1.8; in evidence of compliance, the following must be submitted: 1. VOS Volatile Organic Substance content as determined by product recipe. 2. Products grouped by category in accordance with European Decopaint Directive 2004/42/EC – Enclosure 2: Emission norm for paints, lacquers and clear finishes, phase 2. 3. EU limit value for this product A/d: 300 g/l 2010. This product contains a maximum of 300 g/l VOCs. We apply the above harmonization procedure as recommended by the Dutch Green Building Council.
Belgian emission label	The product complies with the limit values and other stipulations of the Royal Decree of 8 May 2014, which defines the threshold levels for emissions to the internal environment from construction products for designated, specific uses, as published in the Belgian Government Gazette of 8 August 2014.
French emission label	A+

Item details

Packaging	1L, 2.5L
Storage	Cool and above freezing point; do not allow product quality to deteriorate during storage.
Use within	Use within 24 months of the date charge no. stated on the pack figures 1 and 2 = year, figures 3 and 4 = month, 5 and 6 = day of the month. Assumes unopened product.

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System structure

New, exterior, untreated, wood
- clean / degrease and sand
- prime with Ralston 4S Wood-Primer
- pre-finish with Ralston 4S Wood-Primer
- finish with Ralston 4S Satin

New, exterior, untreated, non-ferrous metal (galvanised steel, aluminium, copper)
- remove all traces of oxidation thoroughly, clean / degrease and sand
- prime with Ralston Uni-Primer
- pre-finish with Ralston 4S Wood-Primer
- finish with Ralston 4S Satin

New, exterior, untreated, exterior, ferrous metal (steel and iron)
- remove all traces of rust, clean / degrease and sand
- apply 2 coats of primer Ralston Uni-Primer
- pre-finish with Ralston 4S Wood-Primer
- finish with Ralston 4S Satin

New, exterior, untreated, plastics (hard PVC)
- clean / degrease thoroughly, and sand
- prime with Ralston Uni-Primer
- finish with Ralston 4S Satin

Existing, exterior, treated, wood
- remove unsound paint coats
- clean / degrease and sand / rub down gloss thoroughly
- prime bare patches with Ralston 4S Wood-Primer
- pre-finish patches or entire surface with Ralston 4S Wood-Primer
- finish with Ralston 4S Satin

Existing, exterior, treated, non-ferrous metal (galvanised steel, aluminium, copper)
- remove unsound paint coats
- remove all traces of oxidation thoroughly, clean / degrease and sand
- prime bare patches with Ralston Uni-Primer
- pre-finish patches or entire surface with Ralston 4S Wood-Primer
- finish with Ralston 4S Satin

Existing, exterior, treated, exterior, ferrous metal (steel and iron)
- remove unsound paint coats
- remove all traces of rust, clean / degrease and sand
- prime bare patches 2x with Ralston Uni-Primer
- pre-finish patches or entire surface with Ralston 4S Wood-Primer
- finish with Ralston 4S Satin

Existing, exterior, treated, plastics (hard PVC)
- remove unsound paint coats
- clean / degrease thoroughly, and sand
- prime/ pre-finish partially or entirely with Ralston Uni-Primer
- finish with Ralston 4S Satin

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General remarks on paint systems and preparation
These remarks on paint application and maintenance are only general. The appropriate paint system to be applied will depend on both the substrate and the requirements to be met by the paintwork.

Regularly clean and repair any damage to paintwork
Regularly (preferably annually), clean the paintwork and repair any physical or other damage to the substrate or paintwork. This will have a beneficial effect on the condition of the painted object and its paint coating.

Adhesion between paint layers
Always sand or de-gloss between paint coating layers. This is essential for good adhesion of each new layer to the previous layer (with the exception of wall paints).

Regularly check the dew point
When working in lower temperatures, check the dew point frequently. Never apply new paint/coating onto a substrate with condensation (dew). If you do so, the adhesion and film formation will be degraded. Moisture also causes poor drying, and can ruin the gloss.

Repairs and compatibility with paint
Repairs to substrates, paintwork, connection joints/seams and glazing systems must be carried out with the appropriate products in accordance with the manufacturer's instructions. For wood repair, we prefer wood repair products based on epoxy or polyurethane and for sealing glazing joints to the Soudal Glaskit TS. The Soudal Acryrub CF2 can be used to seal joints and seams in interior wall paintwork. Prior to the commencement of the painting work, assess the mutual tolerance of the products to be applied.

Pretreatment, wooden substrates
Remove dirt and any weathered and/or degraded parts from wood and wood-based panels prior to application of the paint system in order to obtain a clean and sound substrate. By rounding off sharp edges, a longer protection of the substrate is obtained. Wood may contain up to 18% moisture during treatment.

For treatment, metal substrates
Remove rust and zinc salts thoroughly, so that an oxidation-free surface is obtained. Immediately after de-rusting / sanding, degrease and apply a primer layer. Degrease new hot-dip galvanised steel and aluminium before applying a primer coat and then blast lightly with a fine non-metallic abrasive using appropriate pressure.

Painting of synthetic substrates
There is no suitable paint system for synthetic materials such as PE and PP.

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