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Technical data sheet

Paint runs through our veins.

Bluefin Unistar 2965

Water-based, transparent **multi-layer coating** for **furniture and interior finishing** for **for industrial and professional use and for DIY**

PRODUCT DESCRIPTION

General

Water-based colourless multi-layer coating with very good transparency and grain enhancement, which can be applied as a one- or two-component product. The product has excellent filling power, very fast drying and excellent block resistance as well as very good chemical and mechanical resistance. Very good cream and grease resistance (CFB) even in one-component application. Very good sag resistance on vertical surfaces and very good light fastness. Suitable as a multi-layer coating on, e.g. oak, for neutral grain enhancement on wood. The product contains a special UV filter that protects against premature yellowing or fading. Coat-on-coat can be applied. The product is formulated without the addition of solvents or plasticisers.

Special properties and standards

- **ADLER green product**
  ADLER green products are objectively tested and certified according to three categories: Environment, Health & Safety, and Durability. Please also refer to the sustainability data sheet.
- **Austrian Eco Label (UZ 01)**
- **ÖNORM A 1605-12 (furniture surfaces)**
  Confirmed by an external test certificate.
  Resistance to chemical reactions:
  for 1K processing: 1-B
  for 2K processing: 1-B1
  Response to abrasion: 2-D (≥ 50 U)
  Response to scratches: 4-D (≥ 1.0 N)
- **DIN 68861 (furniture surfaces)**
  Part 1: Response to chemical stress: 1 B
  Part 2: Response to Abrasion: 2 D (> 50 to ≤150 U)
  Part 4: Response to scratches: 4 D (> 1,0 to ≤ 1,5 N)
- **ÖNORM A 3800-1 (fire behaviour)**
  In conjunction with a flame-retardant substrate: flame-retardant, Q1, Tr 1
- **EN 13501-1 (fire behaviour)**
  Confirmed by an external test certificate.
  In combination with a non-combustible substrate, e.g. materials of fire class A1 or A2: classification as B-s1, d0. For the classification of the reaction to fire, the complete build-up (carrier board / glue / veneer or foil) is always taken into account.

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Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

- **Cradle to Cradle Certified® Silver**
  Cradle to Cradle Certified® is the global standard for products that are safe, circular and responsibly made.
- **DIN 53160-1 and DIN 53160-2**
  Confirmed by an external test certificate.
  Perspiration and saliva-proof properties.
- **ÖNORM EN 71-3**
  Confirmed by an external test certificate.
  Safety of toys; migration of certain elements (free of heavy metals).
- **Plasticiser-free**
- **Coatings of children's toys**
  The product complies with the requirements for „Objects, which children may place in their mouths" (BGBl-Federal Gazette 355: Regulation for plasticizers, 18/09/06)
- **ELF: Emission and solvent-free according to VdL Guideline 01**
- **Food contact**
  Based on the experimental investigations carried out
  - determination of overall migration in accordance with EN 1186
  - headspace GC/MS investigations on volatile compounds
  there are no indications of non-compliance of the coating material for an application for indirect food contact or for temporary short-term contact with dry foods.
- **declared product in baubook**
  Accordant to baubook with one-component processing / two-component processing
- **French ordinance DEVL1104875A**
  Confirmed by an external test certificate.
  Marking of construction coating products for their emission of volatile pollutants: A+

Application area

One-component: For the coating of furniture surfaces exposed to normal levels of stress (such as bedroom suite and living room furniture, application areas III to IV according to ÖNORM A 1610-12).

Two-component: For the coating of furniture surfaces exposed to high levels of stress (such as kitchen and bathroom furniture, tabletops, etc., application areas II – IV according to ÖNORM A 1610-12).

For painting wall and ceiling elements.

For hardly inflammable or flame-retardant coating systems in conjunction with a flame-retardant substrate.

PROCESSING

Processing instructions

- Please stir the product before use.
- The temperature of the product and object, and the room temperature must be at least + 15 °C.
- When coating interior doors, it must be ensured that only sealing profiles compatible with acrylic coatings and paints are used.
- Various types of wood (e.g. Larch, various exotic types of wood) contain water-soluble substances, which become active when overcoating with water-based furniture coatings. To prevent discolouration or marking (which may vary in intensity depending on the wood's origin), we therefore recommend pre-priming **larch** and other **extractive-rich woods** with **Aduro Primer (2523)** before coating.
- If a stronger grain accentuation / higher light protection is desired, for light woods such as Maple 1.5 % and for dark woods such as Walnut 3 % Aquafix UV 100 (8148000210) can be added to the coating.

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- Any change in the processing sequence, environmental conditions, non-observance of instructions or the use of products not listed may have an unfavourable effect on the result.
- Please follow our **ARL 150 - Working guidelines for water-based furniture coatings.**

Blending ratio

8481 4%

100 Part(s) by weight Bluefin Unistar (2965)
4 Part(s) by weight Aqua-Crosslinker 8481 (8481000210)

Aqua-Crosslinker 8481 (8481000210) must be carefully worked into the product by stirring before processing. We recommend waiting approx. 10 minutes before starting work.

Pot life

With Aqua-Crosslinker 8481 (8481000210): 72 hour(s)

Mixed material can be processed for a further 72 hour(s), but must be mixed 1:1 with freshly hardened material.

A further extension of the pot life is not possible.

Increased temperatures reduce the pot life.

Please only prepare as much material as can be used within the pot life.

Application technique

	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Spraying nozzle Ø (mm)	0,23 - 0,33		1,8 - 2,0
Spraying pressure (bar)	100 - 120	60 - 90	2 - 3
Vaporizer Air (bar)	-	1 - 2	-
Applied quantity per application (g/m²)	80 - 120		
Total quantity applied (g/m²)	max. 450*		

*(Primer and topcoat)

The product is ready to use.

The shape and surface condition of the workpiece as well as the type of application influence the actual consumption. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying times

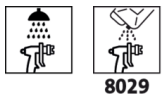
(at 23 °C and 50 % rel. humidity)

Sandable and recoatable	2 hour(s)
Manipulable and stackable	12 hour(s)

Lower temperatures and/or high level of atmospheric humidity can increase the drying time.

The figures given above are reference values. Drying depends on the substrate, layer thickness, temperature, air exchange, relative humidity, stacking pressure and stacking conditions.

Cleaning the working equipment



8029

With water immediately after use.

To remove dried paint residues we recommend using Clean Aqua-Cleaner (8029) (diluted 1:1 with water).

Conveyor belts and material lines: Clean-Smart B&P (8015000210)

Heavily soiled material lines: Clean-Smart Gel (8060000210)

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SUBSTRATE

Type of substrate	Hard and softwood (solid wood-, veneer-, (coated) chipboard-, wood fibre boards)
Substrate property	The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, resin etc. and free from wood dust, as well as tested for suitability for coating.
Substrate preparation	**Hardwoods:** Lightly sand with 150 - 180 grit and clean **Softwoods:** Lightly sand with 100 - 150 grit and clean

COATING SYSTEM

Primer coat	1 x Bluefin Unistar (2965)
Intermediate sanding	Grit size 240 – 320 Remove sanding dust. Sanding straight through must be avoided, as this may lead to differences in the grain accentuation, which are further increased by yellowing with aging.
Topcoat	1 x Bluefin Unistar (2965)

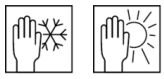
CLEANING AND MAINTENANCE

Cleaning and Maintenance	Cleaning with Clean-Möbelreiniger (7202) and care with Clean-Möbelpflege Plus (7222).

ORDERING INFORMATION

Size of trading unit	4 kg, 22 kg, 120 kg
Colour shades / Glosslevels	Bluefin Unistar G05 (2965000105) Bluefin Unistar G10 (2965000110) Bluefin Unistar G30 (2965000130) Bluefin Unistar G50 (2965000150) Bluefin Unistar G70 (2965000170)
Supplementary products	Aduro Primer (2523) Clean Aqua-Cleaner 8029 (8029) Aqua-Crosslinker 8481 (8481) Aquafix UV 100 (8148) Clean-Möbelpflege Plus (7222) Clean-Möbelreiniger (7202) Clean Smart-Gel (8060) Clean Smart B&P (8015) Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage 	Min. 1 year(s) in the original sealed containers. Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C). Close opened containers well and use up the content as soon as possible.

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Technical specifications	Delivery viscosity: 45 – 50 seconds according to DIN 53211 (6 mm measuring cup, 20 °C)
Safety information	The inhalation of paint aerosols during spray application must generally be avoided. This is ensured by the proper use of a respirator (combination filter A2/P2). Further information on the subject of safety during transport, storage and handling as well as disposal can be found in the relevant safety data sheet. The current version can be accessed on the Internet at **www.adler-lacke.com.**

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