

ADLER Ratiopur

25303 ff

Solvent-based 2-component polyurethane clear coat for furniture and interior finishing for industrial and professional use

PRODUCT DESCRIPTION

General

Fast-drying solvent-based 2-component polyurethane clear coat, free of aromatic hydrocarbons. Excellent mechanical and chemical resistance, good filling power, long pot life, good grain accentuation and attractive pore pattern. Suitable for the "coat on coat" application method.

Special Properties and standards

- **ÖNORM A 1605-12** (furniture surfaces)
Resistance to chemical reactions: 1-B1
Response to abrasion: 2-D (≥ 50 U)
Response to scratches: 4-D (≥ 1.0 N)
Flame treatment: 5-B (highly non-flammable furniture surfaces)
- **DIN 68861** (furniture surfaces)
Part 1: Response to chemical stress: 1 B
Part 2: Response to abrasion: 2 D (above 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:
highly non-combustible or flame-retardant (formerly B 1 in accordance with B 3800 -1), Q1, Tr 1
- **ÖNORM S 1555** or **DIN 53160** Perspiration and saliva-proof properties
- **ÖNORM EN 71-3**, Safety of toys; migration of certain elements (free of heavy metals)
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+



Application area



- For the coating of furniture and interior finishing exposed to high levels of stress, for hotel and school establishments and for kitchen furniture and sanitary facilities: Application areas II – IV according to ÖNORM A 1610-12.
- For highly non-flammable or flame-retardant structures.
- Suitable for surfaces bleached with hydrogen peroxide.

01-16 (supersedes 08-15) ZKL 2526

ADLER-Werk Lackfabrik, A-6130 Schwaz

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Our instructions for use are based on knowledge available currently and shall guide the purchaser / user to the best of one's knowledge, but, however, must be clarified for the areas of application and processing conditions on a case-to-case basis. The purchaser / user decides about the acceptance and use of the delivered product at his / her own risk, which is why we recommend that a sample piece be prepared to check the acceptability of the product. Our general terms and conditions of sale are otherwise applicable. All previous data sheets are rendered invalid with the issue of this one. Rights reserved for the modification of the container sizes, colour shades and degrees of gloss available.

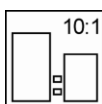
PROCESSING

Instructions for use



- Please stir the product before use.
- To obtain a yellowing protection for the coated wood, please add 5 to max. 10% of ADLER Lichtschutzkonzentrat 90712 (light protection).
- Please follow our "**Working guidelines for PUR furniture paints**".

Mixing ratio



10 parts by weight of ADLER Ratiopur 25303 ff
1 part by weight of ADLER PUR-Härter (hardener) 82019

ADLER Ratiopur 25303 ff can be used only with a hardener and in the mixing ratio specified. Any deviations will cause film and adhesion defects.

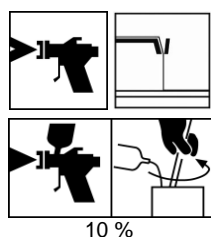
Pot Life



1 working day

The mixture can still be used for processing on the next day, but it must be mixed 1:1 with freshly hardened material; it is not possible to extend the pot life beyond this.

Application technique



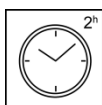
10 %

Application method	Airless	Airless air-supported (air mix, air coat, etc.)	Cup gun	Casting (or pouring)
Spraying nozzle (\varnothing mm)	0.23 - 0.28	0.23 - 0.28	1.8	-
Spraying pressure (bar)	100 - 120	100 - 120	3 - 4	-
Atomized air (bar)		1-2		
Dilution (thinning)	ADLER DD-Verdünnung (thinner) 80019 or ADLER PUR-Verdünnung (thinner) 80029			
Thinner amount added in %	-	-	10 %	-
Viscosity (sec.) 4-mm-cup, 20°C	approx. 24	approx. 24	approx. 18	approx. 24
Application quantity (gm./m ²)	approx. 100 - 150 per application; Total application quantity max. 450			

The shape, the properties and moisture of the substrate affect the consumption / yield. Accurate values for consumption must be obtained by applying trial coats in advance.

Drying times

(at 23 °C and 50 % rel. humidity)

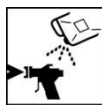


Sandable and recoatable	after approx. 2 hours
Manipulable and stackable	overnight

In order to improve the firmness of the subsequent coating, we recommend overnight drying at room temperature.

The figures given above are reference values. The drying time depends on the type of substrate, coat thickness, temperature, air exchange and relative atmospheric humidity.

Cleaning the working equipment



ADLER DD-Verdünnung (thinner) 80019 or
ADLER Waschverdünnung (washing thinner) 80077

SUBSTRATE

Type of substrate

Solid wood, wood veneers on suitable carrier plates;
Please follow our working guideline „**Wood types for PUR furniture paints**“. “.

Substrate property (or condition)

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.

Preparation of the substrate

Hardwoods: wood sanding grain size 150 – 180 and cleaning
Softwoods: wood sanding grain size 100 – 150 and cleaning

Remove the sanding dust accurately – especially from the wooden pores.

COATING SYSTEM

Primer coat

1 coat of ADLER Ratiopur 25303 ff

Intermediate sanding



Grit size 240-320.

Sanding straight through must be avoided, as this may lead to differences in the grain accentuation, which are further increased by yellowing with ageing.

Remove the wood dust.

Intermediate sanding must be done immediately prior to applying the topcoat in order to ensure proper intermediate adhesion.

Topcoat

1 coat of ADLER Ratiopur 25303 ff

CLEANING AND MAINTENANCE

Cleaning and maintenance

Cleaning with ADLER Clean-Möbelreiniger 96490.

Preservation of surfaces with degree of gloss G30 until G50 with ADLER Clean-Möbelpflege 96491. Excluded are especially polished shiny surfaces because of streak formation..

Please observe the respective technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit

20 kg

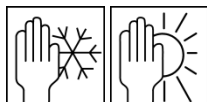
Colour / degree of gloss

G30 Matt	25303
G50 Semi-matt	25305

Supplementary products	ADLER PUR-Härter	82019
	ADLER DD-Verdünnung	80019
	ADLER PUR-Verdünnung	80029
	ADLER Waschverdünnung	80077
	ADLER Lichtschutzkonzentrat	90712
	ADLER Clean-Möbelreiniger	96490
	ADLER Clean-Möbelpflege	96491

FURTHER DETAILS

Durability / storage



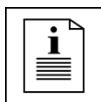
At least 1 year in the original sealed containers.

Make sure the product is protected against moisture, direct sunlight, frost and high temperatures (above 30 °C).

Technical specifications

Delivery viscosity	approx. 30 ± 2 sec. according to DIN 53211 (4-mm cup, 20°C)
Mixing viscosity	approx. 25 ± 2 sec. according to DIN 53211 (4-mm cup, 20°C)

Safety-related information



Please pay attention to the associated safety data sheet. The current version can be accessed on the Internet at **www.adler-lacke.com**.

The product is only suitable for industrial and professional use.

In general, inhaling paint aerosols must be avoided. This is ensured by correctly using a breathing mask (combination filter A2/P2 – EN 141/EN 143).