Arova Flex 1340

Water-based **hardwood stain** accentuating the pores **for industrial and professional use**

PRODUCT DESCRIPTION

General

Water-based hardwood stain with very high light fastness based on micronized pigments to achieve a textured stain effect on fine- and coarse-pored hardwoods; distinctive, negative stain appearance on softwoods such as spruce. Flexible in application.
The product can be recoated with water and solvent-based wood varnishes.

Special properties and standards

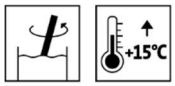
- **French ordinance DEVL1104875A** regarding the marking of construction coating products for their emission of volatile pollutants: A+

Application area

- For furniture, interior finishing, wood panelling and wooden ceilings
- For immersion of frame furniture
- Depending on the furniture varnish used, the product is suitable for surfaces of furnitures and interior finishing in application areas II – IV according to ÖNORM A 1610-12.
- Application in combination with a suitable topcoat system.

PROCESSING

Instructions for use



- Please stir product well before and during use.
- The temperature of the product and object, and the room temperature must be at least +15 °C.
- Do not return the product from the application tool or product contaminated with wood dust to the original container.
- The durability of a contaminated product can be significantly shortened.
- Use product only in stainless steel or plastic immersion tanks.
- Clean the immersion tanks regulary.
- A negative stain image is achieved on softwoods.

ADLER-Werk Lackfabrik, A-6130 Schwaz
Phone: 0043/5242/6922-190, Fax: 0043/5242/6922-309, email: technical-support@adler-lacke.com

- In case of finely porous hardwoods, it is recommended to apply smaller quantities (approx. 35 gm/m²), since the stains are not distributed after the application.
- In the case of wood types with low absorbency or where a higher application quantity is required, the product can be spread/ wiped out with a brush/sponge if necessary.
- Various types of wood such as Oak, Larch, etc. contain water-soluble substances, which become active when overcoating with water-based furniture varnishes. To prevent discolouration or marks (these can be more or less pronounced depending on the origin of the wood), when coating oak, larch and other types of wood rich in active substances we therefore recommend priming them first with Aduro Primer 2523.
- The color changes if the liquid stain comes into contact with metal.
- 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 110 - **Working guidelines for staining wood.**
- Please observe the relative technical data sheets of the products.

Application technique

Application method	Cup gun	Immersion method
Spraying nozzle (ø mm)	1.5	
Spraying pressure (bar)	1.5 - 2.5	
Application quantity (g/m²)	30 - 50	40 - 50
Yield per application (m²/l)[1)]	approx. 8 - 10	approx. 10 - 12
[1)] Yield including loss while spraying		

The shape and properties 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)

Recoatable (solvent-based coatings)	after approx. 12 hours
Recoatable (water-based coatings)	after approx. 5 hours

Depending on the system parameters, a flash-off time must be taken into account. No forced drying until the product is completely penetrated into the wood.

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.

Avoid direct sunlight!

Cleaning the working equipment

With water immediately after use.

To remove dried product residues we recommend using Aqua-Cleaner 80080 (diluted 1:1 with water). Aqua-Cleaner 80080 (diluted 1:1 with water).

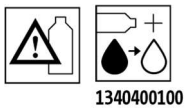
	SUBSTRATE
Type of substrate	Fine pored and coarsely porous hardwoods
Substrate property (or condition)	The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, resin etc. and free from wood dust, as well as tested for suitability for coating.
Preparation of the substrate	wood sanding grit size 150–180 It is advantageous to water the sanded wood and after drying smooth sanding with grit size 180 - 220; this step is absolutely necessary for solid oak.
	COATING SYSTEM
Stain application	Immersion method: 1 x Arova Flex 1340, if necessary wipe with sponge. Spraying method: Once evenly and with moderate excess wet-in-wet along the direction of the wood fiber so that the surfaces appear slightly wet. On wood types such as ash, oak or spruce, we recommend to spread the stain shortly after application (approx. 45 g/m²), first crosswise and then longitudinally to the direction of the wood fibres; in this way, a more structure-accentuated stain appearance is achieved on coarsely porous hardwoods. In case of finely porous hardwoods, it is recommended to apply smaller quantities (approx. 35 gm/m²), since the stains are not distributed after the application. Wiping method: Apply the product saturate uniformly. Remove immediately excess using a lint-free staining paper (pad) with the wood grain. If a longer open time (wipe-out) is desired, up to max. 20 % Arova Aqua-Additive Wischzusatz Flex 8116040776 can be added. A higher addition must not be made, as adhesion problems may occur.
Subsequent coating	Can be recoatable with both water and solvent-based ADLER furniture paints. For light stain shades and color tones, we generally recommend the use of lightfast varnishes such as Bluefin Resist, Legnopur. When using non-lightfast types of paint, it can be expected that the final color will appear slightly yellowish; this effect increases with aging. For white stained surfaces we recommend to apply additionally one layer of Legnopur, tinted with 1.0 % up to a max. of 3.0 % Solva-Tint Polar 9035040114. Alternatively, a water-based furniture varnish such as Bluefin Top-Antiscratch, tinted with 1.0 to max. 3.0 % Aqua-Tint Polar 9009040114, can be used. Avoid overlapping during spraying! Please observe the relative technical data sheets of the products.

ORDERING INFORMATION

Size of trading unit

0.9 l; 4 l

Colour shades / degrees of gloss



Colourless	1340400100		
Yellow	1340041001	Lava	1340041008
Red	1340041002	Tuff	1340041009
Blue	1340041003	Sand	1340041010
Chalk	1340041004	Jaspis	1340041011
Granit	1340041005	Dravit	1340041012
Gneis	1340041006	Magma	1340041013
Slate	1340041007		

All colours can be mixed with each other and, if required, brightened up with Arova Flex Farblos (colourless) 1340400100.

If it is thinned excessively, the inherent color of the wood and the natural yellowing of the wood can lead to noticeable color changes over a period of time.

Prior to applying the stain and the coating, you should always stain a sample on the original wood and treat it with the intended coating material in order to assess the final colour shade.

For a commission, therefore, only use stain from the same batch.

Supplementary products

Aduro Primer 2523
Aqua-Cleaner 80080
Arova Aqua-Additive Wischzusatz Flex 8116040776
Legnopur 26211 ff
Bluefin Resist 2963
Bluefin Top-Antiscratch 2960
Aqua-Tint 9009
Solva-Tint 9035

FURTHER DETAILS

Durability/storage

At least 1 year in the original sealed containers.

Store cool but frost-free.

Safety-related information Information

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.**

The product is only suitable for industrial and professional use.

Inhaling paint aerosols whilst spraying must generally be avoided. This is ensured by correctly using a breathing mask (combination filter A2/P2).