

Pigmolux HQ G05

3350

Water-based, radiation-curing two-component pigmentcoat for furniture and interior finishing for industrial use

PRODUCT DESCRIPTION

General

Water-based pigment coating with insulating properties for wooden surfaces in the furniture sector. The product is characterized by high reactivity, very good stackability, very good chemical resistance, fast drying and very high mechanical resistance.

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 (hardly inflammable furniture surface)



- **ÖNORM A 3800-1 (fire behaviour)**
In conjunction with a flame-retardant substrate:
flame-retardant, Q1, Tr 1



- **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 E (> 0.5 to ≤ 1.0 N)



- **DIN 53160-1 and DIN 53160-2**
Perspiration and saliva-proof properties

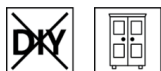


- **ÖNORM EN 71-3**
Safety of toys; migration of certain elements (free of heavy metals)



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

Application area

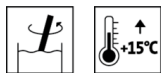


For the coating of furniture and interior finishing exposed to high levels of stress, such as hotel and school furnishings, kitchen and sanitary furniture (except worktops): application areas II - IV according to ÖNORM A 1610-12.

For hardly inflammable or flame-retardant coating systems.

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.
- The coating must be cured absolutely by UV radiation!
- An addition of Bluefin Multilux Top (3853) to varnish for the last finishing coat increases the ring test resistance and scratch resistance of Pigmolux HQ G05 (3350).
- When coating interior doors, it must be ensured that only sealing profiles compatible with acrylic paints are used.
- 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



100 Part(s) by weight Pigmolux HQ G05 (3350)
5 Part(s) by weight Aqua-Hardener 8456 (8456000210)

Aqua-Hardener 8456 (8456000210) must be carefully worked into the product by stirring before processing. We recommend waiting approx. 10 minutes before starting work. The product can only be processed in 2-component form.

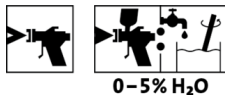
Pot life



4 hour(s)

Mixed material can be processed for a further 4 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.

Application technique



	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Applying device		-	Top pot gun
Spraying nozzle Ø (mm)		0,28 - 0,33	1,8
Spraying pressure (bar)		100 - 120	3 - 4
Vaporizer Air (bar)	-	1 - 2	-
Diluent		-	Water
Diluent amount added (%)		-	0 - 5
Viscosity 6-mm-cup (s)		35 - 40	
Applied quantity per application (g/m ²)		100 - 150*	
Total quantity applied (g/m ²)		max. 450	

* closed-pored surfaces: approx. 120 g/m²

* open-pored surfaces: approx. 150 - 200 g/m²

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 conditions**Flashing off the water:**

30 - 45 minutes	belt-type pallet drier (Rising temperature up to max. + 50 °C, air speed approx. 2 m/s)
or	
15 - 30 Minuten	Flat channel dryer (Rising temperature up to max. + 50 °C, air speed approx. 2 m/s)

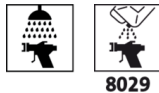
The mentioned system parameters are reference values, which must be coordinated with the respective plant. Drying depends on the substrate, layer thickness, temperature, air exchange, relative humidity, stacking pressure and stacking conditions.

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

UV curing

Feed rate 6 m/min when using 1 Ga-doped radiator (power: 80 W/cm²) and 1 Hg radiator (power: 60 W/cm²)

Attention must be paid to adequate curing at the edges!

Cleaning the working equipment

With water immediately after use.

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

SUBSTRATE**Type of substrate**

Solid wood, chipboard or wood fibre materials suitable for opaque varnishing, veneered or coated with priming film.

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

Wood sanding: Grit size 150 – 180

Carrier plates coated with priming film:

Film sanding Grit size 180 - 240

COATING SYSTEM**Primer coat****For closed-pore coating surfaces**

Carrier plates coated with priming film: Film sanding Grit size 240

depending on quality requirements (fullness, uniformity of the surface) without primer or 1 x primed with Aqualux Spritzfüller (3319) (two-component)

Intermediate sanding Grit size 320 – 360

Solid wood or chipboard panels veneered with blind veneer (e. g. beech):

2 x primed with Aqualux Spritzfüller (3319) (two-component)

Intermediate sanding Grit size 280 – 320

MDF panels:

2 - 3 x primed with Aqualux Spritzfüller (3319) (two-component)

Intermediate sanding Grit size 280 – 320

For open-pore coating surfaces

Pre-insulated with 150 - 200 g/m² Aqualux Spritzfüller (3319) (two component) in case of wood species with water-soluble colouring wood components (e. g. ash) coating systems in RAL 9010 "Reinweiß" (pure white) and in pastel shades.

Regarding coating systems for full-tone-colours it is sufficient to apply one primer coat using 130 – 150 g/m² Pigmolux HQ G05 3350).

Intermediate sanding



Grit size 280 – 360

Avoid sanding straight through!

Remove sanding dust.

Topcoat

1 x Pigmolux HQ G05 (3350) in the desired colour

CLEANING AND MAINTENANCE

Cleaning and Maintenance

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

ORDERING INFORMATION

Size of trading unit

25 kg

Colour shades / Glosslevels

Standard colour(s):

RAL9016 Verkehrsweiß (3350009016)

RAL-shades, NCS-shades, etc. are available as special productions.

Supplementary products

Aqua-Cleaner 8029 (8029)
Aqua-Hardener 8456 (8456)
Aqualux Spritzfüller (3319)
Bluefin Multilux Top (3853)
Clean-Möbelpflege Plus (7222)
Clean-Möbelreiniger (7202)

Please refer to the corresponding technical data sheets of the products.

FURTHER DETAILS

Durability / storage



Min. 9 month(s) 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: 35 – 40 seconds according to DIN 53211 (6 mm measuring cup, 20 °C)

Safety information



The product is only suitable for industrial use.

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.