

Polycolor Top 2K

5082

Water-based 2-component one layer coat for plastic windows and front doors for industrial and professional use

PRODUCT DESCRIPTION

General

Water-based, matt, non-yellowing 2-component coating system for single-coat application. The product is characterized by excellent weather and UV resistance, very good scratch resistance, high block resistance and chemical resistance.

Special properties and standards



- **Determination of the resistance to artificial weathering**
according to RAL-GZ 716, Part 5 and DIN EN 513: 1999-10, method 1 (SKZ). Confirmed by an external test report.
- **Determination of the heat build up (HBU)**
according to RAL-GZ 716, Appendix II-a-3, Annex I (SKZ). Confirmed by an external test report.
- **Cradle to Cradle Certified™ Silver**
Cradle to Cradle Certified® is the global standard for products that are safe, circular and responsibly made.
- **ÖNORM EN 71-3**
Confirmed by an external test certificate.
Safety of toys; migration of certain elements (free of heavy metals).
- **DIN 53160-1 and DIN 53160-2**
Perspiration and saliva-proof properties
- **French ordinance DEVL1104875A**
Marking of construction coating products for their emission of volatile pollutants: A+

Application area



Windows and front doors made of PVC and other synthetic material suitable for coating.

PROCESSING

Processing instructions



- Please stir the product before use. Prevent introduction of air while stirring.
- The temperature of the product and object, and the room temperature must be at least + 15 °C.
- The optimal conditions for use are between 15 - 25 °C with a relative atmospheric humidity between 40 - 80 %.

- Do not close containers with hardened material.
- Sealants must be compatible with the coat and may only be applied once the paint has dried through. Sealing profiles with plasticizers tend to stick together in combination with paints. Please only use those types that have been tested.
- When changing from Polycolor Top 2K (5082) to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- Finely structured surfaces can be achieved by adding Aquafix S (8110). At the same time, the high mechanical resistance is further increased. Add up to max. 8 %.
- 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. Deviations lead to film and adhesion problems as well as to impairments with regard to weathering and color stability.

Blending ratio



8450 5%

100 part(s) by weight or by volume Polycolor Top 2K (5082)
5 part(s) by weight or by volume Aqua-Hardener 8450 (8450000210)

Polycolor Top 2K (5082) can only be used with a hardener and in the mixing ratio specified.

Aqua-Hardener 8450 (8450000210) must be carefully worked into the coating components by stirring before processing.

After addition of hardener, a waiting time of approx. 10 minutes is recommended for improved degassing.

Pot life

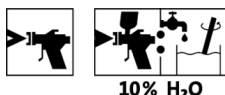


2 hour(s)

A further extension of the pot life is not possible.

Increased temperatures reduce the pot life.

Application technique


10% H₂O

	Airless	Airless air-supported (Airmix®, Aircoat, etc.)	Cup gun
Spraying nozzle Ø (mm)	0,28 - 0,33		2,2
Spray nozzle (Ø inch)	0,011 - 0,013		-
Nozzle angle (°)	20 - 40		-
Spraying pressure (bar)	80 - 100		3 - 4
Vaporizer Air (bar)	-	1 - 2	-
Diluent	-		Water
Diluent amount added (%)	-		10
Applied quantity per application (g/m²)	150 - 200		
Wet film (µm)	150 - 200		

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)



Dust-dry (ISO 1517)	approx. 30 minutes
Tack-free	approx. 5 hour(s)
Dried through	approx. 12 hour(s)

If necessary, a forced drying is also possible.

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.

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

Avoid direct sunlight!

Cleaning the working equipment



8004

With water immediately after use.

To remove dried paint residues we recommend using Aqua-Cleaner (8004) (diluted 1:1 with water).

SUBSTRATE

Type of substrate

PVC and coatable plastics

Substrate property

The substrate must be dry, clean, capable of holding the paint, free from separating substances such as grease, wax, silicone, etc. and free from dust, as well as tested for suitability for coating.

Substrate preparation

PVC and coatable plastics:

Pre-treat with Polyactive SB (8059) to clean and create the necessary adhesion to the substrate. Wisch- und Polierruch (9662) is recommended for application. The cloth should be changed after about 20 linear meters. Recoating must take place within 10 to 60 minutes.

Due to the large number of plastic materials, an adhesion test is recommended.

COATING SYSTEM

Product application

1 x Polycolor Top 2K (5082)

MAINTENANCE

Care

The durability depends on several factors: these include particularly the type of weathering, constructive protection, mechanical stress and the choice of colour applied. To obtain long durability, regular inspection, maintenance and, if necessary, repair measures are necessary .

Annual cleaning with Top-Cleaner (7208) and maintenance with Top-Care (7227) in the package with Window Care-Set (7229).

Touch up minor flaws with the original material or ADLER Varicolor (4117).

ORDERING INFORMATION

Size of trading unit

4 kg, 20 kg

Colour shades / Glosslevels



Colour shades can be obtained using the **ADLER colour mixing system ADLERMix**.

Base paint(s):

Polycolor Top 2K W10 Weiß, tönbar (5082000010)

Polycolor Top 2K Basis W30 (5082000030)

For the following colour shades the use of an anti-heat finish, which leads to a significantly reduced surface temperature in direct sunlight, is recommended. This can counteract thermal damage caused by deformation. Colors with an anti-heat finish are available from the factory.

Available anti-heat shades:

RAL 3007 Schwarzrot	RAL 6022 Braunoliv	RAL 7043 Verkehrsgrau B
RAL 3009 Oxidrot	RAL 6025 Farngrün	RAL 8000 Grünbraun
RAL 5000 Violettblau	RAL 6028 Kieferngrün	RAL 8002 Signalbraun
RAL 5001 Grünblau	RAL 7002 Olivgrau	RAL 8003 Lehmbraun
RAL 5003 Saphirblau	RAL 7003 Moosgrau	RAL 8007 Rehbraun
RAL 5004 Schwarzblau	RAL 7005 Mausgrau	RAL 8008 Olivbraun
RAL 5008 Graublau	RAL 7006 Beigegrü	RAL 8011 Nussbraun
RAL 5011 Stahlblau	RAL 7008 Khakigrü	RAL 8012 Rotbraun
RAL 5013 Kobaltblau	RAL 7009 Grüngrau	RAL 8014 Sepiabraun
RAL 6003 Olivgrün	RAL 7010 Zeltgrau	RAL 8015 Kastanienbraun
RAL 6004 Blaugrün	RAL 7012 Basaltgrü	RAL 8016 Mahagonibraun
RAL 6006 Grauoliv	RAL 7013 Braungrau	RAL 8017 Schokoladenbraun
RAL 6007 Flaschengrün	RAL 7016 Anthrazitgrü	Ca. RAL 8019 Graubraun
RAL 6008 Braungrün	RAL 7021 Schwarzgrü	RAL 8022 Schwarzbraun
RAL 6012 Schwarzgrün	RAL 7022 Umbragrü	RAL 8028 Terrabraun
RAL 6013 Schilfgrün	RAL 7024 Graphitgrü	RAL 9004 Signalschwarz
RAL 6014 Gelboliv	RAL 7026 Granitgrü	RAL 9011 Graphitschwarz
RAL 6015 Schwarzoliv	RAL 7031 Blaugrau	RAL 9017 Verkehrsschwarz
RAL 6020 Chromoxidgrün	RAL 7039 Quarzgrü	

In order to ensure uniformity of the colour shade, use only material with the same batch number on a given surface.

It is recommended to prepare a trial colour sample on the original substrate using the coating system selected in order to assess the final colour shade.

Please observe our **ARL 800- Working guideline for working (including care and maintenance) with ADLER Mix, PUR Mix and Color4You dosing machines**.

Supplementary products

Aqua-Cleaner (8004)
Aqua-Hardener 8450 (8450000210)
Aquafix S (8110)
Polyactive SB (8059)
Top-Care (7227)
Top-Cleaner (7208)
Windoor Care-Set (7229)
Wisch- und Poliertuch (9662)

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.

Technical specifications

VOC content: EU limit for Polycolor Top 2K (Kat A/d): 130 g/l.
Polycolor Top 2K contains maximum 70 g/l VOC.

Safety information



The product is only suitable for the industrial and professional 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.