

Polycolor Top 2K Metallic

5080

Water-based 2C single-coat paint with **Anti-Heat properties** for **windows and exterior doors made of plastic**, for industry and trade

PRODUCT DESCRIPTION

General

Water-based, matt, non-yellowing 2C paint system with metallic effect for single-coat application. Stand-out features of this product include excellent resistance to weathering and UV radiation, very good scratch resistance and a high degree of block resistance and chemical resistance.

Special properties and standards



- **Determination of the resistance to artificial weathering**
Confirmed by an external test report.
according to RAL-GZ 716, Part 5 and DIN EN 513: 1999-10, method 1 (SKZ).
- **Determination of the heat build up (HBU)**
Confirmed by an external test report.
according to RAL-GZ 716, Appendix II-a-3, Annex I (SKZ).
- **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 Metallic (5080) 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



100 part(s) by weight or by volume Polycolor Top 2K Metallic (5080)
5 part(s) by weight or by volume Aqua-Hardener 8450 (8450000210)

Polycolor Top 2K Metallic (5080) can only be used with a hardener and in the mixing ratio specified.

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

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

Pot life

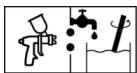


2 hour(s)

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
Applied quantity per application (g/m²)	150 - 200		
Total quantity applied (g/m²)	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

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

(at 23 °C and 50 % rel. humidity)



Dried through	approx. 12 hour(s)
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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



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

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 LUMI (8074) or Polyactive SB (8059) to clean and create the necessary adhesion to the substrate. Wipe and polishing cloth (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 Metallic (5080)

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 Windoor Care-Set (7229).

Touching up minor flaws with the original material.

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 Basis W30 (5082000030)

An anti-heat finish is used for all colour shades, which leads to a significantly lower surface temperature in direct sunlight. As a result, thermal damage caused by deformation can be reduced.

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 8029 (8029)
Aqua-Hardener 8450 (8450000210)
Aquafix S (8110)
Polyactive SB (8059)
Top-Care (7227)
Top-Cleaner (7208)
Windoor Care-Set (7229)
Wipe and polishing cloth (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 of the ready-to-use mixture: Limit value according to Directive 2004/42/EC for Polycolor Top 2K Metallic (Cat A/d): 130 g/l.
Polycolor Top 2K Metallic contains a maximum of 90 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**.