

## Polycolor Top 2K

5082

Water-based **two-component one layer coat** with **anti-heat finish** 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+

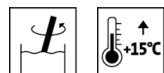
#### Application area



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 %.

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Our instructions are based on the current state of knowledge and are intended to advise the buyer/user to the best of our knowledge, but must be individually adapted to the areas of application and processing conditions. The buyer/user is responsible for deciding on the suitability and use of the supplied product, which is why we recommend that a sample be produced to check the suitability of the product. In all other respects, our General Terms and Conditions of Sale apply. All previous data sheets lose their validity with this edition. We reserve the right to make changes to container sizes, color shades and available gloss levels.

- 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**



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 product by stirring before processing.

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

**Pot life**

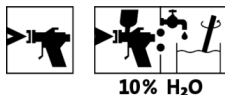


2 hour(s)

A further extension of the pot life is not possible.

Increased temperatures reduce the pot life.

**Application technique**



	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/m <sup>2</sup> )	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**

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

(at 23 °C and 50 % rel. humidity)



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 SB (8059) to clean and create the necessary adhesion to the substrate. Wisch- und Poliervuch (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)

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.**

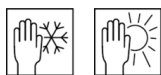
**Supplementary products**

ADLER Varicolor (4117)  
 Aqua-Cleaner 8029 (8029)  
 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 of the ready-to-use mixture: EU limit for Polycolor Top 2K (Cat 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](http://www.adler-lacke.com).