

Polycolor Top 2K VAC

5083

Water-based 2C single-coat paint for window profiles made of plastic for industrial use

PRODUCT DESCRIPTION

General

Water-based, matt, non-yellowing 2C paint system with texture for single-coat application. Stand-out features of this product include excellent resistance to weathering and UV radiation, very good scratch resistance and very good block resistance and chemical resistance. The product is optimised for application by means of Vacumat and is especially suitable for accelerated drying procedures.

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).



- **Determination of the heat build up (HBU)**
according to RAL-GZ 716, Appendix II-a-3, Annex I (SKZ).



- **ÖNORM EN 71-3**
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

Window profiles made of PVC and other coatable plastics.



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 %.

- 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 VAC (5083) to other water-based paint systems, care must be taken to adequately clean the pipes and spray equipment, preferably with warm water.
- 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.
- Please refer to the corresponding technical data sheets of the products.

Blending ratio



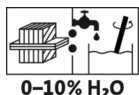
100 part(s) by weight or by volume Polycolor Top 2K VAC (5083)
 5 part(s) by weight or by volume Aqua-Hardener 8249 PRO (8249000210)
 Polycolor Top 2K VAC (5083) can only be used with a hardener and in the mixing ratio specified.
 Aqua-Hardener 8249 PRO (8249000210) must be carefully worked into the product by stirring before processing.
 After addition of hardener, a waiting time of approx. 10 minutes is recommended for improved degassing.

Pot life



24 hour(s)
 The pot life can be further extended by 24 hour(s). To do so, the mixed material must be sieved and then mixed 1:1 with freshly hardened material. This process can be repeated up to four times.
 Increased temperatures reduce the pot life.
 A further extension of the pot life is not possible.

Application technique



	Vacuum coater
Diluent	Wasser
Diluent amount added (%)	0 - 10
Applied quantity per application (g/m ²)	100 - 175
Wet film (µm)	85 - 150

The product is ready to use.
 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 minute
Tack-free	approx. 5 hour(s)
Dried through	approx. 12 hour(s)

If necessary, the drying process can be accelerated to just 15-30 minutes at a maximum temperature of 50 °C.
 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



8029

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. Wisch- und Poliertuch (9662) is recommended for application. The cloth should be changed after about 20 linear meters. Recoating must take place within 10 to 60 minutes.

Alternatively, there is the option of cleaning the substrate with a suitable cleaning agent to remove contaminants and then activating it with plasma or corona treatment.

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

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

COATING SYSTEM

Product application

1 x Polycolor Top 2K VAC (5083)

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.

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

ORDERING INFORMATION

Size of trading unit

20 kg

Colour shades / Glosslevels

Colour shades are available from the factory.

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

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.

Supplementary products

Aqua-Cleaner 8029 (8029)
Aqua-Hardener 8249 PRO (8249)
Polyactive LUMI (8074)
Polyactive SB (8059)
Top-Care (7227)
Top-Cleaner (7208)
Windoor Care-Set (7229)
Wisch- und Poliertuch (9662)

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 VAC (Cat A/d): 130 g/l.
Polycolor Top 2K VAC contains a maximum of 80 g/l VOC.

DGNB (German Sustainable Building Council)

Quality level 4

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.