

TECHNICAL DATA SHEET



Date of issue: 08/02/2012

Last updating: n°5 26/04/2021

Product:	POLIFAN EXTRA UHS 420 GLOSSY	Category:	B/d
		V.O.C. ready to use:	420 g/l
Type of product:	two-pack polyurethane topcoat	V.O.C. limit:	420 g/l
Code:	67.1	Product according to Directive 2004/42/CE	

NATURE OF THE PRODUCT

Two-pack polyurethane topcoat, based on polyester resin and isocyanic adduct to mix before use.

GENERAL USES

Suitable for commercial vehicles, vans and trucks refinishing and car refinishing for very high aesthetic level finishes. Suitable for large surfaces applications (like semitrailer sides).

Excellent outdoor resistance.

APPLICATION METHOD

PREPARATION OF SURFACES

The cleaning of the application surface must be painstaking and it is the fundamental condition to obtain a positive result of the painting cycle.

- Ferrous surfaces. SA2 1/2 sandblasting or very careful mechanical abrasion in order to remove all trace of rust and calamine, followed by degreasing using aqueous solutions of surfactants or organic solvents. Then proceed with the application of primer and then topcoat.
- Galvanized sheet. Accurate sanding (with scotch brite coarse grain) followed by degreasing using thinners. Then proceed with the application of a primer and then the top coat.
- Aluminium. Light sanding procedure followed by degreasing using thinners. Then proceed with the application of primer and then topcoat.

The product requires a previous primer application, like epoxy series 29.3 or acrylic series 69.3 and 69.4 or waterborne 29W5.

PREPARATION OF THE PRODUCT

	Code	Name	By weight	By volume
Component A	67.1	POLIFAN EXTRA UHS 420 GLOSSY	100 parts	100 parts
Component B	01.H5T	ACRYREX UHS Extra	50 parts	500 parts
Alternative Comp. B	01.105	POLIREX UHS Extra	50 parts	50 parts
Alternative Comp. B	01.H60	ACRYREX UHS	50 parts	50 parts

Mix carefully until an even colour and consistency are obtained, dilute at 10-15% with our polyurethane thinner 07.013 or slow polyurethane thinner 07.030 (suitable for large surface applications) to reach a final viscosity of 20-28" Ford 4.

If it is necessary to reduce drying time, it is suggested to use our additives 03.034 (siccative for polyurethane and acrylics, to reduce the time of dust dry) or 03.050 (accelerator for acrylics and polyurethane, to reduce the time of touch free)¹.

¹ Measure out the 03.034 additive at 1-3% max, calculated on component A: bigger quantities may cause marking by pricks defects. The 03.050 additive is added at 0,2-1%, calculated on the product final weight, before the dilution: bigger quantities may cause haze.

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APPLICATION

Spray gun: nozzles of 1,2-1,4 mm diameter and 2-2.5 atm pressure.

Roller or brush: only for small surfaces.²

TECHNICAL DATA

PRODUCT TYPE:	Two pack
FILM APPEARANCE (ASTM D 523):	Glossy (>90 gloss)
COLOURS :	On request (the binder 67.1.K1 has to be used in a ratio 70/30 with the solved based tinting system tinters, ensuring in this way high coverage.
SPECIFIC WEIGHT (ISO 2811):	1,05 ± 0,05 g/cm ³ (A+B)
SUPPLY VISCOSITY (DIN 53211):	30 ± 5" Ford 8 at 25° C. (A comp. only)
SOLID ON VOLUME:	60 ± 3%
SOLIDS CONTENT:	65 ± 3%
DRYING AT 20°C	- Dust free: 30-40 minutes - Touch free: 3-6 hours - Total hardening: 24 hours - Forced hardening: 45 minutes at 60°C - Maximum chemical resistance: after 7 days
RECOMMENDED COATS:	Half crossed coat, followed by one full crossed coat
THICKNESS:	60-70 µm
THEORETIC YIELD:	8-10 m ² /kg
POT-LIFE AT 20° C :	1.5 hours. At higher temperatures, pot-life decreases.
SALT SPRAY TEST (ASTM B 117):	500 hours for a cycle with primer and top coat of 160 µm final dry film thickness.
CERTIFICATION EN ISO 12944-6:	The product applied on epoxy primer 29.3.90130 or acrylic primer 69.3.90150 , complies with EN ISO 12944-6, 'Corrosion protection of steel structures by protective paint systems', class C4M, suitable for industrial environments and coastal areas with moderate salinity (final thickness 180 µm)
ADHESION (ASTM D 3359):	B=5 on iron, aluminium, galvanised sheet, treated like above reported ³ .
IMPACT TEST (ASTM D 2794):	36 kg direct, 10 kg reverse
YELLOWING (ASTM D 4587):	after 1000 hours, ΔE <4

² In this case could be necessary use the 03.009 blisterproof additive, in order to eliminate the air that is embedded applying with these tools.

³ The quality of adhesion goes from a value of 5 (means optimum) to 1 (means not good). For further information please contact Siro's technical service.

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CHEMICAL RESISTANCE⁴ (EN ISO 12720):

Hydrochloric acid, solution 10%	mark	4 - 3	7 days
Nitric acid, solution 10%	mark	4 - 3	7 days
Sulfuric acid, solution 10%	mark	5 - 4	7 days
Acetic acid solution 10%	mark	4	7 days
Mix of sodium chloride 10%, Lactic acid 5%	mark	5	7 days
Synthetic sweat	mark	5	7 days
Hydrogen peroxide 35%	mark	5 - 4	7 days
Ammonia solut. 30%	mark	5	7 days
Sodium hydroxide solut. 10%	mark	5	7 days
Acetone	mark	5 - 4	7 days
Cyclohexanone	mark	1	7 days
Solvelso 100	mark	3	7 days
Ethyl acetate	mark	5 - 4	7 days
Ethanol	mark	5	7 days
Synthetic oil	mark	5	7 days
Idraulic oil	mark	5	7 days
Transmission oil SAE 30	mark	5	7 days
Engine oil 15W40	mark	5	7 days
Unleaded gasoline	mark	5	7 days

REPAINTING: After the complete hardening of the film, it is better a light sanding before overcoating.

STORAGE STABILITY: 1 year for A component - 6 months for B component. Stored in closed packs, in a cool, dry place, away from any sources of heat.

⁴ The quality of adhesion goes from a value of 5 (means optimum) to 1 (means not good). For further information please contact Siro's technical service.