ACRIGLASS FAST UHS 420

Series 3420

Ultra fast high solid acrylic clearcoat

TECHNICAL FEATURES

2K acrylic clearcoat based on acrylic resins and aliphatic hardeners, with very high solid content and low VOC content, characterized by high gloss and transparency, low yellowing, very fast hardening and outdoor resistance, for high quality finishes such as those required in the Car-Refinish sector. The product is formulated to meet the needs of the market, which requires ever faster coating systems to obtain greater daily productivity and delivery of the products in a short time. It also avoids the use of the drying oven or the standard drying time of 30' at 60°C in favour of 10' drying at 60°C. The product complies the European Regulations relating to emissions of Volatile Organic Compounds (VOC) 2004/42/EC.

APPLICATION FIELD

Clear, acrylic final coat for car-refinish coating systems and industrial bodywork. Ideal product for small repairs to be delivered within 24 hours or within 2 days, i.e. when a very rapid physical drying is required. 2 hours after the application, it is possible to handle the piece or the artifact. Also ideal for large surfaces or for the complete makeover of the vehicle thanks to its excellent wettability.

Classified according to EC Regulation 2004/42/EC - Dlgs 161/06 -Cat. B/d) special finishes. EC LIMIT VALUE 420 g/l - CONTENT 420 g/l

GENERAL INFORMATION

System: *Two pack - 2K*
Nature: *Solvent-based*
Packages: *1 l - 5 l*

SUBSTRATE PREPARATION

As this is a clear coat, a suitable primer and intermediate (colored base coat) must first be applied. The preparation of the substrate must therefore be carried out with reference to what is indicated in the specific technical data sheet of the selected primer. In order to investigate and select the ideal coating system, it is advisable to consult the technical assistance service or the commercial support in order to obtain the precise indication of the suitable primers to be used according to the type of product and the support to be painted. Finally, it is essential to respect the overcoating times of the primer and the intermediate.

APPLICATION

Application conditions

The application of the coating product can be influenced by various factors such as environmental conditions (among which it is necessary to mention temperature, humidity and ventilation), the geometry and laboriousness of the products to be painted, the different type of surface profiles and the thicknesses to be applied. Spray application with HVLP / LVLP gravity gun with 1.2 - 1.4 mm nozzle is recommended. Apply a light coat and after 1 - 2 minutes of flash off apply a full coat.

EQUIPMENT	VISCOSITY	NOOZLE	PRESSURE	NOTES
AIRBRUSH - CUP GUN	16'' - 18 '' Ford Cup 4	1,2 - 1,4 mm	2 - 2,5 bar	HVLP/LVLP

CATALYSIS

SERIES	HARDENER	CATALYSIS	USE	POT LIFE AT 20°C	PACKAGE
1385	STANDARD UHS ACRYLIC HARDENER	50% by volume (2:1)	Standard Uhs	1 hour	0,5 l
1387	UHS SLOW ACRYLIC HARDENER	50% by volume (2:1)	Uhs, Slow	1 hour	0,5 l

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ENVIRONMENTAL CONDITIONS

ENVIRONMENT TEMPERATURE	SUBSTRATE TEMPERATURE	RELATIVE HUMIDITY	SHELF LIFE
5°C - 35°C	5°C - 35°C	60 %	Store 2 years in original sealed packaging at +5/+35°C.

TECHNICAL DATA

THEORETICAL AVERAGE SPREADING RATE	APPLICATION	DILUTION	GLOSS	WET FILM THICKNESS EACH COAT	DRY FILM THICKNESS EACH COAT	N° OF COATS	TOTAL DRY FILM THICKNESS	THEORETICAL AVERAGE CONSUMPTION
16,5 m²/l each coat at the dry film thickness of 30 µ	Spray	Ready to be used	95 - 100 gloss	60 µ	30 µ	2 coats to achieve the total requested thickness	60 µ	60 g/m²

DRYING

OVERCOATING INTERVAL	AIR DRYING	DUST-FREE DRYING	DRY TO TOUCH	DRY THROUGH	FULL CURE	FLASH OFF	STOVING DRYING	RESISTANCE TO TEMPERATURE
-	20°C	30 minutes	2 - 3 hours	48 - 72 hours	7 days	5-10 minutes at 20°C	10 minutes at 60°C	80°C

WARNINGS AND RECOMMENDATIONS

- *Being a finishing product, it has no anticorrosive properties.*
- *The use of nitro thinners for the application of polyurethane coating systems can create pitting phenomena on the surface of the dried film. Furthermore, the presence of partially reactive solvents can give rise to undesired reactions, reducing the aesthetic and mechanical features of the system. The choice of unsuitable regenerated thinners can create problems of color change, product sedimentation and less effectiveness in reducing viscosity.*
- *The product is limitedly resistant to solvents generally intended as temporary contact limited in time.*
- *Shelf Life Component B: the shelf life of the hardener used with Component A is 12 months.*
- *90 minutes after the suggested drying (10' at 60°C), the film can be polished. If drying takes place at ambient temperature at 20°C, the product can be polished 3 hours after the application.*
- *In order to accelerate the drying (at low temperatures and for small repairs), the hardener Catalizzatore Acrilico UHS Fast Series 1386 with catalysis ratio 2:1 by volume can be used as an alternative to the Standard UHS Acrylic Hardener Serie 1385.*
- *For application at high temperatures and on large surfaces, the use of the Uhs Slow Acrylic Hardener Serie 1387 with catalysis ratio 2:1 by volume is suggested.*

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SUPPLY TECHNICAL DATA

PARAMETER	DATA	TEST METHOD
SPECIFIC WEIGHT	0.95 - 1.05 g/ml	ISCOL 2
GLOSS	95 - 100 gloss 60°	ISCOL 6
VISCOSITY	28 - 32 seconds Ford Cup 4	ISCOL 4

Composition: *Modified acrylic*
Reference color: *Transparent*
% solid content by weight: *56.2 ± 2%*
% solid content by volume: *50.46 ± 2%*
VOC: *437 ± 2 g/l*
VOS: *43.8 ± 2%*

MIXING RATIO A+B

METHOD	1385
A+B BY WEIGHT	100 + 50
A+B BY VOLUME	100 + 50

Specific weight after catalysis (A+B): *1 ± 0,05 g/ml*
% solid content by weight (A+B): *56 ± 2%*
% solid content by volume (A+B): *50 ± 2%*
VOC (A+B): *420 ± 2 g/l*
VOS (A+B): *42 ± 2%*

NOTES

Cleaning tools: *At the end of the application, carefully wash the spray guns, the painting systems and the containers with a suitable thinner and store the tools dry to avoid encrustations.*
Sanitary labelling: *Handle the product with care. Make reference to the MSDS and respect the national and local regulations in force concerning personal and environmental safety.*
Additional notes:

- *The data reported in this data sheet have been obtained using only Franchi&Kim production materials (coatings, hardeners, thinners) applied in accordance with the specifications described. The improper use of thinners and/or hardeners, different from those suggested or not manufactured by Franchi & Kim, can compromise application features, performances and final curing of the product. Therefore, in case of mixed coating systems with Franchi & Kim and other brand products, the conformity of the results with the parameters indicated in the technical data sheet cannot be granted.*
- *The times related to pot life and drying intervals refer to a standard temperature of 20°C, except when it is expressly indicated.*
- *The data relating to section mixing ratio A+B are to be considered refering only to the first recommended catalyst.*
- *The spreading rates are theoretical, indicative and intended per coat as they can be influenced by the color and the application system. Practical application test is suggested.*
- *Pot Life times have been defined at the temperature of 20°C, therefore higher or lower temperatures, hardeners, environmental conditions and humidity different from the standard can influence in defect or in excess the duration of the Pot Life.*

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