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FINISHES

M1 FIRE-RETARDANT VARNISH

Reference: **FUHS44**

TECHNICAL DATA SHEET

Version 2: 03/14/2026

PRODUCT TYPE AND APPLICATIONS

FUHS44 M1 FIRE-RETARDANT VARNISH is a high-solids, two-component, solvent-based acrylic polyurethane gloss varnish

, tested and certified as FEU M1

(TEST REPORT No. / by CREPIM)

FUHS44 M1 FIRE-RETARDANT VARNISH is non-flammable and does not spread flames.

Furthermore, it offers high scratch resistance and excellent resistance to extreme temperatures and weather conditions. It features a high solids content, fast drying, high film hardness, and excellent gloss.

SCOPE OF APPLICATION

Automotive, architecture, interior design.

COMPONENTS AND MIXING

Two-component product

	Volume	Weight	Percentage
FUHS44 M1 FIRE-RETARDANT VARNISH	1000ml	1000g	100%
HM1 Hardener	330ml	356g	33%

Ready-to-use viscosity DIN 4 at 20 °C 15–18" ± 2

Ready-to-use solids content % 59 ± 1

Pot Life 2 hours @ 20°C

Recommended application temperature: 15–25°C

The mixture must be perfectly homogeneous.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Varnish	Hardener
Density at 20°C	Colorless, glossy	Colorless, glossy
Solid content calculated as a percentage by weight of the mixture:	1.00 ± 0.03	1.08 ± 0.03
Gloss at a 60° angle of incidence	59%	
VOC g	>95°	
Delivery viscosity NF4:	<460	<250
Theoretical coverage	47" ± 2	26" ± 2
Heat resistance	10 m²/L/coat	
	200–250°C	

APPLICATION SYSTEMS & INSTRUCTIONS FOR USE

Gravity-fed spray gun	Conventional	High transfer efficiency
Spray gun nozzle	1.3–1.4	1.2–1.3
Spray gun pressure	3–3.5 bar	2 bar
Suction gun	Conventional	High transfer efficiency
Drying time between coats	15–20 minutes at 20 °C	
Number of coats	1 to 2 full coats	
Recommended thickness	25–50 microns	

PREPARATION

The substrate must be sound (dust-free, grease-free, dry), sanded with P500 grit

DRYING

Temperature	20°C	50–60°C
Dust-free	15 minutes	Flash before forced drying 15 min
Handleable	24 hours	30–40 minutes
Ready for polishing after	24 hours	12 hours
INFRARED DRYING	Medium wave	Short wave
Flash before infrared drying	5–7 minutes	5–7 minutes
Ready for polishing after	25 minutes	20 minutes

FUHS44 M1 FIRE-RETARDANT VARNISH reaches its maximum hardness after 7 days.

STORAGE AND AVAILABLE PACKAGING

1.33L Kit 6.5L Kit	Maximum storage time: Varnish: 24 MONTHS IN A TIGHTLY SEALED CONTAINER Hardener: 12 MONTHS IN A TIGHTLY SEALED CONTAINER
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