

TECHNICAL DATASHEET

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SELEMIX® 2K POLYURETHANE EXTRA TOPCOAT 7-512

PRODUCT DESCRIPTION

Selemix 7-512 2K Polyurethane Topcoat is a high quality gloss 2-pack Polyurethane finish for solid colours and single-layer metallic finishes. It dries quickly to give a high gloss finish and very good durability. Application can be by conventional or air-assisted airless spray.

It is compatible with *Selemix* Epoxy and Polyurethane primers, giving a highly durable and hard wearing paint system. It is suitable for the coating of machinery, agricultural and construction equipment, and many other industrial painting applications where a durable, high gloss finish is required.

PRODUCTS

7-512 *Selemix* 2K Polyurethane Topcoat
 NPxx *Selemix* NP Tinters

Hardeners:

9-060 Extra PU Hardener
 9-065 Slow Hardener
 9-070 Direct Hardener
 9-080 Acrylic Hardener

Thinners:

1-420 Polyurethane Thinner
 1-208 Slow Thinner
 1-470 Slow Direct Thinner

SUBSTRATES AND PREPARATION



Painted Surfaces
 Polyurethane or
 Polyester Fillers

Machine sand with P320-400 discs and degrease



Selemix Epoxy Primers
 or PU Primers








Refer to Primer TDS for recoat time

Apply only on a clean and dry surface with a temperature above the dew point to avoid condensation. In confined spaces, provide adequate ventilation during application and drying.




MIXING

Note: If mixing 7-511 and 7-512 Binders for semi-matt and semi-gloss finishes, please refer to the separate Selemix TDSs 573 and 575.


Thoroughly mix paint before activating and check colour before use

	Features Standard System	Conventional	Air-Assisted Airless
	By Weight: 7-512 Topcoat 9-060 / 9-065 Hardener 1-420/1-208/1-470 Thinner	1000 250 200-300	1000 250 (use 9-065) 160-200 (use 1-208/1-470)
	By Volume: 7-512 Topcoat 9-060 / 9-065 Hardener 1-420/1-208/1-470 Thinner	4 1 0.9-1.4 (20-35%)	4 1 (use 9-065) 0.7-1 (use 1-208/1-470) (18-25%)
	Features 9-080 Hardener	Conventional (High Durability)	Air-Assisted Airless (High Durability)
	By Weight: 7-512 Topcoat 9-080 Hardener 1-420/1-208/1-470 Thinner	1000 350 0-100	1000 350 0-100 (use 1-208/1-470)
	By Volume: 7-512 Topcoat 9-080 Hardener 1-420/1-208/1-470 Thinner	5 2 0-0.5 (0-10%)	5 2 0-0.5 (use 1-208/1-470) (0-10%)
	Features 9-070 Hardener	Conventional 9-070 Hardener	Air-Assisted Airless 9-070 Hardener
	By Weight: 7-512 Topcoat 9-070 Hardener 1-420/1-208/1-470 Thinner	1000 300 140-280	1000 300 140-280 (use 1-208/1-470)
	By Volume: 7-512 Topcoat 9-070 Hardener 1-420/1-208/1-470 Thinner	3 1 0.5-1 (15-30%)	3 1 (use 1-208/1-470) 0.5-1 (use 1-208/1-470) (15-30%)
	Viscosity (at 20°C): Pot Life (at 20°C):	18-20 secs DIN4 1.5 hours	20-25 secs DIN4 1.5 hours

APPLICATION

	Features	Conventional	Air-Assisted Airless
	Spraygun setup:	Nozzle: Gravity: 1.3-1.4mm Suction: 1.6-1.8mm Pressure feed: 0.85-1.2mm	Nozzle: 9-11 thou 0.23-0.28mm
	Air Pressure:	HVLP: 2 Bar Standard: 2-3 Bar	2.5 Bar
	Fluid Pressure:	N/A	80-100 Bar
	Number of coats:	2	2
	Flash-off between coats:	10-15 mins	10-15 mins
	Drying:	Air dry or bake at 60°C for 30-40 mins	Air dry or bake at 60°C for 30-40 mins
	Flash-off before bake:	10 mins	10 mins
	Wet Film Thickness:	120 microns	120 microns
	Dry Film Thickness:	50 microns	50 microns

DRYING TIMES

 at 20°C	Dust Free:	10-15 mins
	Touch Free:	1-1.5 hours
	Tape Free:	16 hours
	Handleable:	4-5 hours
	Hard Dry:	10-12 hours or after bake
	Overcoating time:	Minimum: when Hard Dry Maximum: 24 hours by itself without sanding
		Lower temperature or film thickness higher than 50µm will extend drying times

TECHNICAL DATA

Based on ready-for-use mixed paint including thinner:

VOC (g/L):	521-554 g/L (depending on colour and dilution)
Solid content (weight):	46-53 %
Solid content (volume):	39-43 %
Solvent content (weight):	47-54 %
Specific gravity (Ready for use)	1.02-1.11 Kg/L
Theoretical coverage:	7.8-8.5 m ² /L at 50 microns DFT
Gloss:	High Gloss

PRODUCT CODES AND DESCRIPTIONS

Selemix Code	Short Code	Product Description	Packsize	
1.775.1200/E3.5K	7-512	Polyurethane Extra Topcoat	3.5	Kg
1.775.1200/E14K	7-512	Polyurethane Extra Topcoat	14	Kg
1.959.5060/E1	9-060	Extra PU Hardener	1	Lt
1.959.5060/E5	9-060	Extra PU Hardener	5	Lt
1.959.5065/E5	9-065	Slow Hardener	5	Lt
1.991.5070/E1	9-070	Direct Hardener	1	Lt
1.991.5070/E5	9-070	Direct Hardener	5	Lt
1.959.5080/E1	9-080	Acrylic Hardener	1	Lt
1.959.5080/E5	9-080	Acrylic Hardener	5	Lt
1.911.4420/E1	1-420	Thinner	1	Lt
1.911.4420/E5	1-420	Thinner	5	Lt
1.991.3208/E5	1-208	Slow Thinner	5	Lt
1.991.1470/E5	1-470	Slow Direct Thinner	5	Lt

HEALTH AND SAFETY

For comprehensive Health, Safety and Environmental advice, please refer to the relevant Material Safety Data Sheets and Product can labels.

THIS PRODUCT IS FOR PROFESSIONAL USE ONLY

The information given in this sheet is for guidance only. Any person using the product without first making further enquiries as to the stability of the product for the intended purpose does so at his own risk and we can accept no liability for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of our experience and our policy of continuous product development. Drying times quoted are average times at 20°C. Film thickness, humidity and shop temperature can all affect drying times.

FOR FURTHER INFORMATION PLEASE CONTACT:

Selemix Customer Service and Sales Group
Needham Road
Stowmarket, Suffolk
IP14 2AD, England
Tel: 01449 771771