

TECHNICAL DATASHEET

Issue date:
February 2022

SELEMIX[®] 2K POLYURETHANE DIRECT TOPCOATS

10% Gloss **7-530 / 7-531**

30% Gloss **7-532 / 7-533**

50% Gloss **7-534 / 7-535**

70% Gloss **7-536 / 7-537**

PRODUCT DESCRIPTION

Selemix 2K Polyurethane Direct Gloss Topcoat is a versatile, high solids 2-pack PU finish that can be applied directly to a variety of substrates without need for a primer, giving a very efficient process.

It is suitable for application by a wide range of methods including conventional spray, HVLP spray, airless spray or air-assisted airless spray. It has good adhesion to a wide variety of substrates and is available in 4 gloss levels. Its good anticorrosive properties make it suitable for the finishing and protection of machinery, agricultural and construction equipment, and many other industrial painting applications.

PRODUCTS

7-530	<i>Selemix</i> Direct Gloss 10% Mixed Colour
7-531	<i>Selemix</i> Direct Gloss 10% Light Colours (for white and pastel colours)
7-532	<i>Selemix</i> Direct Gloss 30% Mixed Colour
7-533	<i>Selemix</i> Direct Gloss 30% Light Colours (for white and pastel colours)
7-534	<i>Selemix</i> Direct Gloss 50% Mixed Colour
7-535	<i>Selemix</i> Direct Gloss 50% Light Colours (for white and pastel colours)
7-536	<i>Selemix</i> Direct Gloss 70% Mixed Colour
7-537	<i>Selemix</i> Direct Gloss 70% Light Colours (for white and pastel colours)

Note: Gloss levels are within +/- 10% depending on colour

Hardeners:

9-070	Direct Hardener
9-080	Acrylic Hardener
9-075	HS Direct Hardener

Thinners:

1-470	Slow Direct Thinner
1-208	Slow Thinner
1-480	Direct Thinner
1-490	Accelerated Direct Thinner

Additive:

6-550	Accelerator for Direct
-------	------------------------

SUBSTRATES AND PREPARATION



Steel (Blast Cleaned)

Blast clean to ISO 8501-1 SA 2.5 with a blast profile of maximum 40 µm Rz



Steel / Cast Iron

Machine sand with P80-120 discs and degrease

Galvanised steel

Abrade with SCOTCHBRITE® and degrease

Phosphated steel

Abrade with SCOTCHBRITE® and degrease

Aluminium / Light Alloys

Machine sand with P240-320 discs and degrease

GRP

Machine sand with P240 discs and degrease

Painted surfaces and fillers






Machine sand with P320-400 discs and degrease

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

Thoroughly mix paint before activating and check colour before use.


The speed of drying can be increased with use of 1-490 Thinner, or 6-550 Accelerator (added at 1-2%) but these can reduce the final gloss and shorten the potlife. Use of 1-490 Thinner AND 6-550 together is not recommended. Use of 1-490 Thinner or 6-550 when applied directly to aluminium is not advised.

	Features: Standard System	Conventional	Air-Assisted Airless
	By Weight: 7-53X Direct Topcoat 9-070 / 9-080 Hardener 1-480 /1-470 /1-490 Thinner	1000 200 170	1000 200 0-40
	By Volume: 7-53X Direct Topcoat 9-070 / 9-080 Hardener 1-480 /1-470 /1-490 Thinner	4 1 1 (25%)	4 1 0-0.2 (0-5%)
	Features: 9-075 HS Hardener	Conventional	Air-Assisted Airless
	By Weight: 7-53X Direct Topcoat 9-075 Hardener 1-480 /1-470 /1-490 Thinner	1000 130 160	1000 130 80-110
	By Volume: 7-53X Direct Topcoat 9-075 Hardener 1-480 /1-470 /1-490 Thinner	6 1 1.5 (25%)	6 1 0.7-1 (12-15%)
	Viscosity (at 20°C):	20-25 secs DIN4	25-35 secs DIN4
	Pot Life (at 20°C):	2-3 hours 1-2 hours with 1-490 Thinner	2-3 hours 1-2 hours with 1-490 Thinner

APPLICATION

	Features	Conventional	Air-Assisted Airless
	Spraygun setup:	Nozzle: Gravity: 1.8mm Suction: 1.8-2.0mm Pressure feed: 1.2-1.4mm	Nozzle: 7-530-7-535: 11-17 thou 0.28-0.43mm 7-536-7-537 11-13 thou 0.28-0.33mm
	Air Pressure:	HVLP: 2 Bar Standard: 2-3 Bar	2-3 Bar
	Fluid Pressure:	N/A	100 Bar
	Number of coats:	2	1-2
	Flash-off between coats:	10-15 mins	10-15 mins
	Drying:	Air dry or bake at 60°C for 45 mins	Air dry or bake at 60°C for 45 mins
	Flash-off before bake:	5-10 mins	5-10 mins
	Wet Film Thickness:	160-200 microns	160-200 microns
	Dry Film Thickness:	80-100 microns	80-100 microns

DRYING TIMES

	Dust Free	60 mins
	Touch Free	1.5-2 hours
at 20°C	Tape Free	16 hours
	Handleable	6-10 hours
	Hard Dry	16 hours
Stoving:	45 minutes at 60°C (according to film thickness)	
Overcoating time:	Minimum: when Hard Dry Maximum: 5 months by itself without sanding If 6-550 Accelerator or 1-490 Fast Hardener are used, it can be recoated with itself up to 24 hours without sanding.	
Note:	Lower temperature or film thickness higher than 100µm will extend drying times	

TECHNICAL DATA

Based on ready-for-use mixed paint including thinner (depending on colour and gloss):	Conventional Spray 4:1:1 mix 9-070 / 1-480	Air Assisted Airless Spray 6:1:0.7 mix 9-075 / 1-480
VOC (g/L):	497-534 g/L	420-464 g/L
Solid content (weight):	52-62%	60-69%
Solid content (volume):	39-44%	47-52%
Solvent content (weight):	38-48%	31-40%
Specific gravity (Ready for use)	1.12-1.30 Kg/L	1.16-1.37 Kg/L
Theoretical coverage at 100 microns DFT:	3.9-4.4 m ² /L	4.7-5.2 m ² /L
Theoretical coverage at 100 microns DFT:	3.0-3.9 m ² /Kg	3.4-4.5 m ² /Kg
Theoretical Solvent emission per sq. m at 100 microns DFT:	113-136 g per m ²	81-99 g per m ²
Gloss	10, 30, 50 and 70% +/- 10% as described	
Brush / Roller application:	Mix 6:1 with 9-075 Hardener and use unthinned	

PRODUCT CODES AND DESCRIPTIONS

Selemix Code	Short Code	Product Description	Packsize
1.775.3000/E4.25K	7-530	Direct GL10%	4.25 Kg
1.775.3000/E17K	7-530	Direct GL10%	17 Kg
1.775.3100/E4.75K	7-531	Direct GL10% Light Colours	4.75 Kg
1.775.3100/E19K	7-531	Direct GL10% Light Colours	19 Kg
1.775.3200/E4.25K	7-532	Direct GL30%	4.25 Kg
1.775.3200/E17K	7-532	Direct GL30%	17 Kg
1.775.3300/E4.75K	7-533	Direct GL30% Light Colours	4.75 Kg
1.775.3300/E19K	7-533	Direct GL30% Light Colours	19 Kg
1.775.3400/E4.25K	7-534	Direct GL50%	4.25 Kg
1.775.3400/E17K	7-534	Direct GL50%	17 Kg
1.775.3500/E4.75K	7-535	Direct GL50% Light Colours	4.75 Kg
1.775.3500/E19K	7-535	Direct GL50% Light Colours	19 Kg
1.775.3600/E4.25K	7-536	Direct GL70%	4.25 Kg
1.775.3600/E17K	7-536	Direct GL70%	17 Kg
1.775.3700/E4.75K	7-537	Direct GL70% Light Colours	4.75 Kg
1.775.3700/E19K	7-537	Direct GL70% Light Colours	19 Kg
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
1.991.5075/E5	9-075	Direct HS Hardener	5 Lt

PRODUCT CODES AND DESCRIPTIONS (continued)

1.959.5080/E5	9-080	Acrylic Hardener	5	Lt
1.991.3208/E5	1-208	Slow Thinner	5	Lt
1.991.1470/E5	1-470	Slow Direct Thinner	5	Lt
1.991.1480/E5	1-480	Direct Thinner	5	Lt
1.991.1490/E5	1-490	Accelerated Direct Thinner	5	Lt
1.965.5000/E1	6-550	Direct Accelerator	1	Lt
1.965.5000/E5	6-550	Direct Accelerator	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