

## TECHNICAL DATASHEET

Issue date:  
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# SELEMIX® DIRECT PRO SEMI-GLOSS

## PRODUCT DESCRIPTION

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

It gives a high quality semi-gloss finish with good colour and UV stability. 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

7-158	<i>Selemix</i> Direct Pro Semi-Gloss White Colours
7-157	<i>Selemix</i> Direct Pro Semi-Gloss Neutral Colours

### Hardeners:

9-158	Fast Hardener for Acrylic
9-154	Medium Hardener for Acrylic
9-152	Slow Hardener for Acrylic

### Thinners:

1-155	Extender Thinner
1-156	Slow Extender Thinner




## 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	Machine sand with P80-120 discs and degrease
Galvanised steel	Abrade with SCOTCHBRITE® and degrease
Aluminium	Machine sand with P240-320 discs and degrease
Painted Surfaces	Machine sand with P240-320 discs and degrease
<i>Selemix</i> Epoxy Primer or PU Primer	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

Thoroughly mix paint before activating and check colour before use




	Features	Conventional	Air-Assisted Airless
	<b>By Weight:</b> 7-157 / 7-158 Topcoat 9-15X Hardener 1-155 / 1-156 Thinner	1000 250 200-250	1000 250 50-150
	<b>By Volume:</b> 7-157 / 7-158 Topcoat 9-15X Hardener  1-155 / 1-156 Thinner	3 1  0.75-0.9 (25-30%)	3 1  0.2-0.6 (7-20%)
	Viscosity (at 20°C): Pot Life/Double Vx (at 20°C): Workable Time (at 20°C):	28-36 secs DIN4 1.5-2 hours 1.5 hours	45-120 secs DIN4 1.5-2 hours 1 hour

## FOR PLURAL MIX EQUIPMENT:


Paint is pre-thinned as below and used through plural mix equipment to mix the hardener.  
 Use 9-152 Hardener.

	Features	Plural Mix Air-Assisted Airless Spray		
		Very High Build	High Build	Standard
	<b>By Weight:</b> 7-157 / 7-158 Topcoat + Thinner  9-152 Hardener	1000 + 50 Pre-mixed  250	1000 + 100 Pre-mixed  250	1000 + 150 Pre-mixed  250
	<b>By Volume:</b> 7-157 / 7-158 Topcoat + Thinner	3 + 0.2 Thinner Pre-mixed	3 + 0.4 Thinner Pre-mixed	3 + 0.6 Thinner Pre-mixed
	9-152 Hardener	1	1	1
	Viscosity (at 20°C):	100-120 secs DIN4	65-75 secs DIN4	45-55 secs DIN4

## APPLICATION

	Features	Conventional	Air-Assisted Airless
	Spraygun setup:	Nozzle: Gravity: 1.8mm Suction: 1.8-2.0mm Pressure feed: 1.2-1.4mm	Nozzle: 09-11 thou 0.23-0.28mm
	Air Pressure: (refer to spraygun manufacturer)	HVLP: 2 Bar Standard: 2.5-3 Bar	2.5 Bar
	Fluid Pressure:	N/A	100 Bar
	Number of coats:	2	2 (or 1 Visit)
	Flash-off between coats:	15 mins	15-20 mins (or 2 mins for 1 Visit)
	Drying:	Air dry or bake at 50°C for 30-45 mins	Air dry or bake at 50°C for 30-45 mins
	Flash-off before bake:	10-15 mins	10-15 mins
	Wet Film Thickness:	150-175 microns (2 x 75 -100 µm)	150-175 microns (100 µm 1 Visit)
	Dry Film Thickness:	90-110 microns	90-110 microns (70-80 µm 1 Visit)
	Film Thickness Note:	Dry film thicknesses of 120 microns can be achieved (e.g. for use over blast cleaned steel) by applying one light coat, followed by 2 full coats.	

## DRYING TIMES

 at 20°C	Dust Free Touch Free Tape Free Handleable Hard Dry	20 mins (or 15 mins with Fast Hardener) 3 hours (or 2 hours with Fast Hardener) 6 hours (or 3 hours with Fast Hardener) 8 – 10 hours (or 5 - 6 hours with Fast Hardener) 1 day (or overnight with Fast Hardener)
	Stoving:	30 minutes @ 50°C (according to film thickness)
	Overcoating time:	Minimum: when Hard Dry Maximum: 1 month by itself without sanding
	Note:	Lower temperature or DFT higher than 100µm will extend drying times

## TECHNICAL DATA

Based on ready-for-use mixed paint including thinner:	Conventional Spray	Air-Assisted Airless Spray and Plural Mix
VOC (g/L):	461-484 g/L	402-456 g/L
Solid content (weight):	56-61%	59-67%
Solid content (volume):	47-49%	50-56%
Solvent content (weight):	39-44%	33-41%
Specific gravity:	1.10-1.17	1.11-1.20
Theoretical coverage at 100 microns DFT:	4.7-4.9 m <sup>2</sup> /L	5.0-5.6 m <sup>2</sup> /L
Theoretical coverage at 100 microns DFT:	4.0-4.5 m <sup>2</sup> /Kg	4.2-5.0 m <sup>2</sup> /Kg
Theoretical solvent emission per sq. m at 100 microns DFT:	94-103 g per m <sup>2</sup>	72-91 g per m <sup>2</sup>
Gloss:	Semi Gloss	Semi Gloss

## PRODUCT CODES AND DESCRIPTIONS

Selemix Code	Short Code	Product Description	Packsize	
7-158/E18K	7-158	Direct Pro Semi-Gloss Binder White Colours	18	K
7-158/E4.5K	7-158	Direct Dro Semi-Gloss Binder White Colours	4.5	K
7-157/E15K	7-157	Direct Pro Semi-Gloss Binder Neutral Colours	15	K
7-157/E3.75K	7-157	Direct Pro Semi-Gloss Binder Neutral Colours	3.75	K
9-158/E1	9-158	Fast Hardener For Acrylic	1	Lt
9-158/E5	9-158	Fast Hardener For Acrylic	5	Lt
9-154/E1	9-154	Medium Hardener For Acrylic	1	Lt
9-154/E5	9-154	Medium Hardener For Acrylic	5	Lt
9-152/E1	9-152	Slow Hardener For Acrylic	1	Lt
9-152/E5	9-152	Slow Hardener For Acrylic	5	Lt
1-155/E5	1-155	Extender Thinner	5	Lt
1-156/E5	1-156	Slow Extender 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:

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