



TECHNICAL DATASHEET

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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 Selemix Direct Pro Semi-Gloss White Colours
7-157 Selemix 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 Thinner1-156 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
Selemix Epoxy Primer or PU Primer	Refer to Primer TDS for recoat time
GRP	Machine sand with P240-320 discs and degrease
Plastics (PA, PC, ABS, PC/ABS, PMMA, PVC) PP	Abrade with SCOTCHBRITE® and degrease PP must be flame treated before painting

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

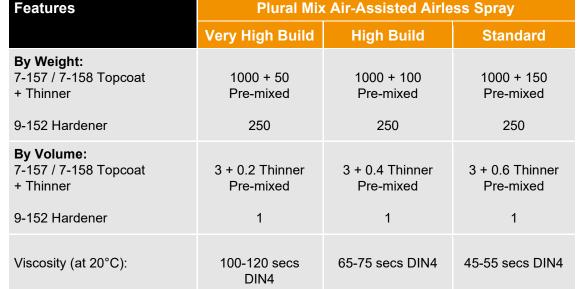


Features	Conventional	Air-Assisted Airless
By Weight: 7-157 / 7-158 Topcoat 9-15X Hardener 1-155 / 1-156 Thinner	1000 250 200-250	1000 250 50-150
By Volume: 7-157 / 7-158 Topcoat 9-15X Hardener 1-155 / 1-156 Thinner	3 1 0.75-0.9	3 1 0.2-0.6
Viscosity (at 20°C): Pot Life/Double Vx (at 20°C): Workable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











APPLICATION

	reatures	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)
<u> </u>	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 (130-150 μm 1 Visit)

DRYING TIMES

Dry Film Thickness:

Film Thickness Note:

	Dust F Touch Tape F
at 20°C	Handle
	Hard D

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

90-110 microns

followed by 2 full coats.

Dry film thicknesses of 120 microns can be achieved (e.g. for use over blast cleaned steel) by applying one light coat,

90-110 microns (70-80 µm 1 Visit)





STRUCTURED / TEXTURED FINISH

A structured / textured finish can be achieved with Selemix Direct Pro using the following process.

- 1. Apply a first coat of 7-15X as normal, ensuring that the film thickness is sufficient to cover and protect the substrate.
- 2. Allow 30 mins flash-off time at 20C
- 3. Mix the 7-15X Direct Pro 3:1:0-0.2 with 9-15X Hardener and 1-155 Thinner More thinner will give a finer texture and less thinner will give a coarser texture.
- 4. Apply a coat using a gravity gun with a 1.8-2.5mm tip at 0.1-0.3 Bar pressure Lower pressures will give a coarser texture, higher pressures, a finer texture
- **5.** Air dry, or allow 15 mins flash-off before baking.

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 ² /L	5.0-5.6 m ² /L
Theoretical coverage at 100 microns DFT:	4.0-4.5 m ² /Kg	4.2-5.0 m ² /Kg
Theoretical solvent emission per sq. m at		
100 microns DFT:	94-103 g per m ²	72-91 g per m ²
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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