

TECHNICAL DATASHEET

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SELEMIX® 2K WB POLYURETHANE PRIMER 5-8070

PRODUCT DESCRIPTION

Selemix 5-8070 2K PU Primer is a two component waterborne polyurethane light grey primer designed for protection of steel, aluminium and galvanized steel surfaces with full waterborne paint systems.

It is fast drying and easy to apply. It is suitable for use with Selemix waterborne or solventborne 2-pack topcoats, and can be used with the same hardeners as 8-110 / 8-111 Topcoat.

It is recommended for use on industrial and agricultural equipment and machinery where a durable, low VOC or waterborne product is required.

PRODUCTS

5-8070 *Selemix* 2K WB Polyurethane Primer

Hardeners:

9-574 (Medium Hardener):	Suitable from 15°C to 35°C (Large surfaces)
9-572 (Slow Hardener):	Suitable from 35°C to 45°C (Large Surfaces)
9-110 (Medium Hardener for Acrylic):	Suitable from 15°C to 25°C (Low VOC)
9-125 (Fast Curing Hardener for Acrylic):	Suitable from 15°C to 25°C (Low VOC)

Thinner:

Water Drinkable quality water or deionized water should be used

SUBSTRATES AND PREPARATION









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
GRP	Machine sand with P240 discs and degrease
Painted Surfaces	Machine sand with P240-320 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.

	Features With 9-574 / 9-572 Hardeners	Conventional	Air-Assisted Airless
	By Weight: 5-8070 Primer 9-574 / 9-572 Hardener	1000 400 Thoroughly mix primer and hardener and then add:	1000 400 Thoroughly mix primer and hardener and then add:
	Water	150 - 250	50 - 100
	By Volume: 5-8070 Primer 9-574 / 9-572 Hardener	2 1 Thoroughly mix primer and hardener and then add:	2 1 Thoroughly mix primer and hardener and then add:
	Water	0.3-0.5 (15-25%)	0.1-0.2 (5-10%)
	Viscosity (at 20°C): Pot Life (at 20°C):	30-40 secs DIN4 2 hours	55-65 secs DIN6 2 hours
	Features With 9-110 / 9-125 Hardeners	Conventional	Air-Assisted Airless
	By Weight: 5-8070 Primer 9-110 / 9-125 Hardener	1000 200 Thoroughly mix primer and hardener and then add:	1000 200 Thoroughly mix primer and hardener and then add:
	Water	150 - 250	50 - 100
	By Volume: 5-8070 Primer 9-110 / 9-125 Hardener	4 1 Thoroughly mix primer and hardener and then add:	4 1 Thoroughly mix primer and hardener and then add:
	Water	0.6-1 (15-25%)	0.2-0.4 (5-10%)
	Viscosity (at 20°C): Pot Life (at 20°C):	20-30 secs DIN4 2 hours	25-35 secs DIN6 2 hours

APPLICATION

	Features	Conventional	Air-Assisted Airless
	Spraygun setup:	Nozzle: Gravity: 1.8 mm Suction: 1.8 - 2.0 mm Pressure feed: 1.2 - 1.4mm	Nozzle: 09 - 13 thou 0.23 – 0.33 mm
	Air Pressure:	HVLP: 2 Bar	3 - 4 Bar
	Fluid Pressure:	Standard: 2.5-3 Bar N/A	90 - 100 Bar
	Number of coats:	2 medium	1 Visit (1 light dry + 1 full) or 2 medium coats for higher build
	Flash-off between coats:	15 mins minimum at 20°C or until matt	15 mins minimum at 20°C or until matt 5 mins for 1-Visit Application
	Drying:	Air dry 5-6 hours or bake at 60°C for 50 mins	Air dry 5-6 hours or bake at 60°C for 50 mins
	Flash-off before bake:	30-45 mins minimum at 20°C or until matt	30-45 mins minimum at 20°C or until matt
	Wet Film Thickness:	200-225 microns (2 coats)	175-200 microns (1 visit) 200-225 microns (2 coats)
	Dry Film Thickness:	80-100 microns (2 coats)	80-100 microns (1 visit) 100-140 (2 coats)

DRYING TIMES



at 20°C

Dust Free
Touch Free
Handleable
Hard Dry

20 - 25 mins
4 - 6 hours
6 - 8 hours
24 hours

Stoving:

20-30 minutes @60°C
(according to film thickness and hardener selection)

Overcoating time:

Minimum: 4-6 hours
(according to film thickness and hardener selection)
Maximum: 72 hours without sanding on clean surface
with any *Selemix* Waterborne 2K topcoats
or 2K *Selemix* Solventborne 7-512 or 7-110 topcoats

Note:

Lower temperature or film thickness higher than 100µm
will extend drying times.
The drying times quoted are approximate times and will vary depending
on drying conditions and film thickness.
Poor ventilation, temperature below 20°C, humidity above 85% RH and
excessive film thickness will extend the drying times.

TECHNICAL DATA

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

VOC (g/L):

150 g/L with 9-110 / 9-125 hardeners
270 g/L with 9-572 / 9-574 hardeners

Solid content (weight):

41-48%

Solid content (volume):

30-36%

Theoretical coverage:

3-3.5 m² per litre at 100 microns DFT

Specific gravity (Ready for use)

1.13-1.22 Kg/L

Gloss:

Matt Finish

Storage:

STORE FREE FROM FROST ABOVE 4°C.
Prolonged exposure to high temperatures or direct
sources of heat should be avoided

PRODUCT CODES AND DESCRIPTIONS

Selemix Code	Short Code	Product Description	Packsize	
5-8070/E20K	5-8070	2K PU Primer	20	Kg
1.959.8110/E5	9-110	Hardener for Acrylic	5	Lt
1.959.8125/E5	9-125	Fast Curing Hardener for Acrylic	5	Lt
1.959.8125/E200	9-125	Fast Curing Hardener for Acrylic	200	Lt
9-574/E5	9-574	Medium Hardener for 2K PU Primer	5	Lt
9-572/E5	9-572	Slow Hardener for 2K PU Primer	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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