



# TECHNICAL DATASHEET

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# SELEMIX<sup>®</sup> DIRECT PRO SEMI-MATT

# **PRODUCT DESCRIPTION**

*Selemix* Direct Pro Semi-Matt 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-matt 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

| 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                             |  |
| Selemix 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 |   |  |

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><br>7-153 / 7-154 Topcoat<br>9-15X Hardener<br>Thinner           | 1000<br>250<br>150-200                      | 1000<br>250<br>50-150                    |
| ].   | <b>By Volume:</b><br>7-153 / 7-154 Topcoat<br>9-15X Hardener                      | 3<br>1                                      | 3<br>1                                   |
|      | Thinner   | 0.5-0.75<br>(15-25%)                        | 0.2-0.5<br>(7-15%)                       |
| s    | Viscosity (at 20°C):<br>Pot Life/Double Vx (at 20°C):<br>Workable Time (at 20°C): | 28-36 secs DIN4<br>1.5-2 hours<br>1.5 hours | 36-45 secs DIN4<br>1.5-2 hours<br>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 |                              |  |
|-------|---|---------------------------------------|------------------------------|--|
|       |   | High Build                            | Standard                     |  |
| ].[]. | <b>By Weight:</b><br>7-153 / 7-154 Topcoat<br>+ Thinner | 1000 + 50<br>Pre-mixed                | 1000 + 150<br>Pre-mixed      |  |
|       | 9-152 Hardener  | 250                                   | 250                          |  |
| ]:[]: | <b>By Volume:</b><br>7-153 / 7-154 Topcoat<br>+ Thinner | 3 + 0.2 Thinner<br>Pre-mixed          | 3 + 0.5 Thinner<br>Pre-Mixed |  |
| S     | 9-152 Hardener  | 1                                     | 1                            |  |
|       | Viscosity (at 20°C):                                    | 36-40 secs DIN4                       | 40-45 secs DIN4              |  |







# **APPLICATION**



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| Features  | Conventional Air-Assisted Airless   |  |  |
|---|---|--|--|
| Spraygun setup:                                   | Nozzle:<br>Gravity: 1.8mm<br>Suction: 1.8-2.0mm<br>Pressure feed:1.2-1.4mm  | Nozzle: 09-11 thou<br>0.23-0.28mm      |  |
| Air Pressure:<br>(refer to spraygun manufacturer) | HVLP: 2 Bar<br>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<br>(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<br>(2 x 75 -100 μm)   | 150-175 microns<br>(100 μm 1 Visit)    |  |
| Dry Film Thickness:                               | 90-110 microns  | 90-110 microns<br>(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**



Handleable at 20°C Hard Dry

Note:

**Dust Free** 20 mins (or 15 mins with Fast Hardener) **Touch Free** 3 hours (or 2 hour with Fast Hardener) Tape Free 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 Lower temperature or film thickness higher than 100µm will extend drying times







#### **TECHNICAL DATA**

| Based on ready-for-use mixed paint<br>including thinner: | Conventional Spray         | Air-Assisted Airless Spray |
|--|----------------------------|----------------------------|
| VOC (g/L):   | 437-486 g/L                | 403-467 g/L                |
| Solid content (weight):                                  | 55-63%                     | 57-66%                     |
| Solid content on 1L (volume):                            | 47-52%                     | 49-56%                     |
| Solvent content (weight):                                | 37-45%                     | 34-43%                     |
| Specific gravity (Ready for use)                         | 1.08-1.18                  | 1.09-1.20                  |
| Theoretical coverage at 100 microns DFT:                 | 4.7-5.2 m <sup>2</sup> /L  | 4.9-5.6 m <sup>2</sup> /L  |
| Theoretical coverage at 100 microns DFT:                 | 4.0-4.8 m <sup>2</sup> /Kg | 4.1-4.8 m²/Kg              |
| Theoretical solvent emission per sq. m at                |                            |                            |
| 100 microns DFT:   | 84-103g per m <sup>2</sup> | 72-95g per m <sup>2</sup>  |
| Gloss:   | Semi Matt                  | Semi Matt                  |

#### **PRODUCT CODES AND DESCRIPTIONS**

| Selemix Code | Short Code | Product Description                         | Packsize |    |
|--------------|------------|---|----------|----|
| 7-154/E18K   | 7-154      | Direct Pro Semi-Matt Binder White Colours   | 18       | Κ  |
| 7-154/E4.5K  | 7-154      | Direct Pro Semi-Matt Binder White Colours   | 4.5      | K  |
| 7-153/E15K   | 7-153      | Direct Pro Semi-Matt Binder Neutral Colours | 15       | Κ  |
| 7-153/E3.75K | 7-153      | Direct Pro Semi-Matt Binder Neutral Colours | 3.75     | Κ  |
| 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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