



## Moragel

### Product Description

Moragel is a two-component, polyurethane based, glossy topcoat. It provides a long-lasting, ultra-high gloss finish that has unique colour-retention, together with excellent abrasion resistance. Chemical resistance to diesel, petrol, oil, mild acids and solvents is also excellent. It can be used both interior and exterior sites.

### Intended Uses

It is suitable for steel, aluminium and wood surfaces as a top coat in 2-pack polyurethane systems.

### Physical Properties

<b>Physical State</b>	: Liquid
<b>Colour</b>	: Moravia catalogue
<b>Volume Solid (%)</b>	: 59 ± 3
<b>Density</b>	: 1,2 ± 0,05 kg/L (Blue, Yellow, Red), 1,3 ± 0,05 kg/L (White, Cream), 1,1 ± 0,05 kg/L (Dark Blue, Black)
<b>Gloss</b>	: High Gloss (> 93 gloss)
<b>Flexibility</b>	: Good

### Application Data

<b>Mixing Ratio (weight)</b>	: 8 kg Part A / 2 kg Part B
<b>Mixing Ratio (volume)</b>	: 3 units Part A / 1 unit part B
<b>Application Methods</b>	: Airless spray, conventional spray, brush or roller.
<b>Application Conditions</b>	: The temperature of the substrate should be minimum 3°C above the dew point of the air. Good ventilation is required.
<b>Thinner/Cleaner</b>	: Moravia 012 Thinner

### Guiding data for airless spray

<b>Pressure at nozzle</b>	: 15 MPa (150 kp/cm <sup>2</sup> 2100 psi)
<b>Nozzle tip</b>	: 0,28-0,38 mm (0,011-0,015")
<b>Spray angle</b>	: 40-80°
<b>Filter</b>	: Check to ensure that filters are clean.

	Dry (µm)	Wet (µm)	Theoretical Coverage (m <sup>2</sup> /L)
<b>Typical film thickness</b>	40	68	14,7
<b>Maximum thickness</b>	60	101	9,9

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### Surface Preparations

All surfaces to be coated should be clean, dry and free from contamination. The surface should be assessed and treated in accordance with ISO 8504.

#### **Steel surface**

Blast-cleaning to Sa 2½ (ISO-8501). Power tool cleaning to min. St 2 (ISO 8501) may be acceptable, subject to exposure conditions.

#### **Coated surface**

Blast-cleaning with 360 grade paper is necessary. Please contact Moravia office for further information.

### Drying Time

Substrate Temperature	Pot Life (max)	Touch Dry	Hard Dry	Over coating Data	
				Minimum	Maximum
10°C	10 hrs	6 hrs	14 days	30 hrs	10 days
23°C	8 hrs	4 hrs	7 days	24 hrs	5 days
30°C	6 min	2 hrs	3 days	10 hrs	3 days

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

**Packing Size** : 1 kg, 3 kg, 20 kg

### **Storage**

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated area and away from source of heat and ignition. Containers must be kept tightly closed.

### **Health and Safety**

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

**For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.**

**Disclaimer:** The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything but the quality of the product itself. We reserve the right to change the given data without notice.