

## **With AQUA-CAR H2O you can make the switch without spending a fortune.**

Aqua-Car H2O makes converting to VOC compliant products easy. Our compact assortment of compliant products is the perfect choice for any bodyshop. They are easy to apply, of excellent quality and offer tremendous value for money, compliance means a great finish and great value for money. Offering quality, ease of use and a great finish – Aqua-Car H2O is easy to apply and has excellent coverage.

H2O will revolutionise bodyshops' ability to use a VOC compliant system, while maintaining a high quality of finish without affecting productivity.

The Aqua-Car H2O System is fully supported with Aqua-Car compliant Primers, Clearcoats and associated products.

***The EU limit value for this product (product category IIB d) in ready for use form is max 420g/litre of VOC. The VOC content of this product in ready to use form is max 420 g/l***

### **PREPARATION OF SUBSTRATE:**

Clean original or old finishes thoroughly with W710 Low silicone remover. Heavy contamination may be removed by using W750 Low VOC degreaser.

Aqua-Car H2O mixed colours should only be applied over: - Prepared existing paintwork in sound condition, 2-pack primer/undercoat, wet flatted with P800 wet or dry paper, or dry sand with random orbital sander with dust extraction with P600 grade, prior to topcoat application.

Do not apply H2O basecoats directly over 2-pack etch primer or TPA finishes, always isolate with 2 pack primer to complete panels.

On new panels coated in electrocoat it is essential that a 2-pack primer is applied first.

### **PRIMER SHADE SYSTEM:**

Use of primer shade system will result in reaching opacity in fewer coats, increasing productivity, reducing basecoat colour consumption and better colour matching. Use the guide chart to select the appropriate shade.

### **COLOUR IDENTIFICATION AND CHECKING**

As with all refinish paint systems, a colour check should be carried out before painting the vehicle. Ensure check mix is thoroughly stirred before carrying out colour check.

### **COLOUR MIXING**

H2O colours are mixed from H2O mixing tinters using the weight-mix recipes provided. **Gently** shake the tinter components for a few seconds by hand before use, do not mechanically shake. Hand-stir mixed colours immediately after weighing. Mix paint only in plastic containers. **Do Not** use metal cans. Cover container if it is to be left for any length of time.










Always strain with nylon paint filters (125-190 micron) designed for use with waterborne paints.

### **VISCOSITY ADJUSTMENT**










Ensure that the paint temperature is at least 20°C before measuring the DIN 4 viscosity. Only adjust the viscosity using HTH-150 H2O thinner to ensure correct product performance. For spot repairs HTH-300 fast thinner can also be used.

An addition of 0-15% of thinner may be required to adjust the viscosity.

**H2O BASECOAT PROCESS**

	<b>H2O Metallic &amp; Pearlescent Basecoat Colours</b>	<b>Solid Colour Basecoat Colours</b>
	Use air feed respirator. Refer to relevant health and safety data sheets.	Use air feed respirator. Refer to relevant health and safety data sheets.
	Allow wet sanded surfacer to dry thoroughly. Carefully clean surfaces with W710 Low silicone remover to remove all dust, sanding residues, water soluble salts and other impurities. Remove silicone remover with a lint-free cloth and allow to dry completely.	Allow wet sanded surfacer to dry thoroughly. Carefully clean surfaces with W710 Low silicone remover to remove all dust, sanding residues, water soluble salts and other impurities. Remove silicone remover with a lint-free cloth and allow to dry completely.
	H2O Basecoat Colour 0-15% H2O Thinner  Adjust to viscosity	H2O Basecoat Colour 0-15% H2O Thinner  Adjust to viscosity
	23 – 28 secs DIN 4 @ 20°C Always filter using nylon paint strainers  Pot life: 1 month	23 – 28 secs DIN 4 @ 20°C Always filter using nylon paint strainers  Pot life: 1 month
	Gravity gun: Nozzle size: 1.2 – 1.4 mm For pressure recommendations on compliant guns refer to the gun manufacture.	Gravity gun: Nozzle size: 1.2 – 1.4 mm For pressure recommendations on compliant guns refer to the gun manufacture.
	1 light pass 1 normal pass 1 light control pass Allow to flash off fully between coats Depending on colour some colours may need further passes.	1 light pass 2 normal passes Allow to flash off fully between coats Depending on colour some colours may need further passes.
	After final spray pass, allow to flash off until the surface has become completely matt. Flash off time can be reduced by: - Using air blowers - Heating up the spray booth - Infrared drying	After final spray pass, allow to flash off until the surface has become completely matt. Flash off time can be reduced by: - Using air blowers - Heating up the spray booth - Infrared drying
	Short Wave: 3-5 minutes approximately Medium Wave: 5-7 minutes approximately  Allow to cool for a minimum of 5 minutes before application of clearcoat.	Short Wave: 3-5 minutes approximately Medium Wave: 5-7 minutes approximately  Allow to cool for a minimum of 5 minutes before application of clearcoat.
	Wait until uniformly dry before applying clearcoat (minimum of 15 minutes).	Wait until uniformly dry before applying clearcoat (minimum of 15 minutes).
	Apply VOC compliant Clearcoat.	Apply VOC compliant Clearcoat.

**H2O 3 STAGE PEARLESCENT BASECOAT PROCESS**

<b>H2O Groundcoat Basecoat Colours</b>		<b>Pearlcoat Basecoat Colours</b>
	Use air feed respirator. Refer to relevant health and safety data sheets.	Use air feed respirator. Refer to relevant health and safety data sheets.
	Allow wet sanded surface to dry thoroughly. Carefully clean surfaces with W710 Low silicone remover to remove all dust, sanding residues, water soluble salts and other impurities. Remove silicone remover with a lint-free cloth and allow to dry completely.	
	H2O Groundcoat Colour 0-15% H2O Thinner Adjust to viscosity	H2O Pearlcoat Colour Add 25% H2O Thinner then no further viscosity adjustment is required.
	23 – 32 secs DIN 4 @ 20°C Always filter using nylon paint strainers Pot life: 1 month	13 – 15 secs DIN 4 @ 20°C Always filter using nylon paint strainers Pot life: 1 month
	Gravity gun: Nozzle size: 1.2 – 1.4 mm For pressure recommendations on compliant guns refer to the gun manufacture.	Gravity gun: Nozzle size: 1.2 – 1.4 mm For pressure recommendations on compliant guns refer to the gun manufacture.
	1 light pass 2 normal passes Depending on colour some colours may need further passes. Allow to flash off fully between coats Never apply more than 3 coats.	Apply single coats based on colour check panel Never apply more than 3 coats. This product is not designed to reach opacity Allow to flash off fully between coats
	After final spray pass, allow to flash off until the surface has become completely matt. Flash off time can be reduced by: - Using air blowers - Heating up the spray booth - Infrared drying	After final spray pass, allow to flash off until the surface has become completely matt. Flash off time can be reduced by: - Using air blowers - Heating up the spray booth - Infrared drying
		Short Wave: 3-5 minutes approximately Medium Wave: 5-7 minutes approximately Allow to cool for a minimum of 5 minutes before application of clearcoat.
	Wait until uniformly dry before application of Pearlcoat	Wait until uniformly dry before applying clearcoat (minimum of 15 minutes).
Apply VOC compliant Clearcoat.		

**EQUIPMENT CLEANING**

Manual gun cleaning machine: Clean the gun in a suitable cleaning machine. For gravity feed guns unscrew the paint cup and filter (if fitted) and rinse separately. Rinse gun through with clean water. Finally spray through with clean HTH-150 H<sub>2</sub>O thinner. Do not use spray equipment containing residues of solvent.

**AUTOMATIC GUN CLEANING MACHINE**

Disassemble gun and place in waterborne gun cleaning machine as per the manufacturer's instructions. After the cleaning cycle, clean off the gun parts and rinse with water. Assemble gun and spray through with clean HTH-150 H<sub>2</sub>O thinner. Do not use spray equipment containing residues of solvent.

Dispose of cleaning water correctly. Do not dispose of cleaning water into drains.

**APPLICATION**

For optimum application, ensure both spray booth air temperature and paint temperature are above 20° C. Best results will be obtained by allowing adequate time for the paint to reach spray booth temperature before use.

Application of full or heavy coats will give extended flash off times. Maximum productivity is obtained by the application of **light and regular coats**.

Resist the temptation to apply heavy coats as this can affect the final colour match.

Apply a **final crossed mist-coat** for a uniform metallic appearance and colour match.

**FADE OUT PROCESS**

If required before blending final coats, colours can be reduced with 30-40% of HFO-100 fade out additive.

**STORAGE**

It is recommended that all components are stored in a cool dry place away from sources of heat. Store above 5°C, avoid exposure to frost or freezing conditions.

During storage and transportation the temperature range must be maintained between 15-30 °C.

Prolonged exposure to high temperatures or direct sources of heat should be avoided.

**Important remarks:****For professional use only.**

Do not handle Jewel Paint Products until the Material Safety Data Sheets have been read and understood. Ensure that all employees are trained on Material Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an air-supplied respirator when exposed to vapours or spray mist.

This data sheet information is given in good faith but without warranty. The information contained here represents the current state of our knowledge and is intended as a guide to our products and their uses, it is not intended as insurance of certain product properties or of their specific applications.

The warnings displayed on the product labels should be followed. Any industrial property rights should be observed. We guarantee perfect product quality under the terms of our general conditions of sale.

**Check all colours before use by spraying a test card prior to application to vehicle, as no responsibility for incorrect colours will be accepted after application.**