

Technical Information Sheet

Jawel 2k Acrylic

**Units 313-317 Heath Street, Smethwick,
West Midlands, B66 2QY**

Tel:0121 5586193 Fax: 0121 565 1559

Field of application	: Passenger cars
Chemical basis	: High-quality polyurethane finish based on hydroxy acrylate resins
General qualities	: High gloss, non-yellowing 2-pack finish. Can be air-dried or forced-dried
Auxiliary materials	: 47-20/47-30/47-40/47-50/47-60 2K Hardener 47-35/47-55/47-65 MS Hardener 8-150/8-160 HS Hardener 1-141/1-151/1-161 Uni Thinner 47-49 2K Matting Agent 47-91 Spot Repair Thinner 47-39 2K Elastic
Mixing ratio (volume)	: 2:1 (Paint:2K/MS Hardener) 3:1 (Paint:HS Hardener)
Physical properties	
Density	: 0.97-1.31 kg/L
Flashpoint	: >21°C
Vol.% solids	: 47-51
Economy	: Ca. 9 m ² /L/50 µm.
Gloss	: High gloss
Substrates	: As described in the preparation system. Combined with suitable primer on: degreased and sanded of old paint, plastics, steel, galvanised steel, aluminium and polyester.
Undercoats	: 1-15 Washprimer 1-47 2K Surfacer 1-146(20) MS (4:1) Surfacer 8-145 HS (3 :1) Surfacer 8-149 HS Tinting Surfacer 1-75(10) Epoxy Primer 1-36 1K Acrylic Primer
Finishing materials	: Irrelevant
Cleaning the equipment	: 6-051 Nitro Cellulose Thinner
Colour	: See mixing colour card 2k acrylic
Storage life	: Under normal storage conditions max. 2 years (unopened tins)

6 Accidental release measures

Exclude sources of ignition and ventilate the area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in sections 7 and 8. Contain and collect spillages with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Do not allow to enter drains or water courses.

Clean preferably with a detergent; avoid the use of solvents. If the product enters drains or sewers the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the National Rivers Authority.

7 Handling and storage

Handling: Vapours are heavier than air and may spread along floors. They may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits. Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Keep the container tightly closed. Exclude sources of heat, sparks and open flames. Non-sparking tools should be used. Avoid skin and eye contact. Avoid inhalation of vapour and spray mist. Smoking, eating and drinking should be prohibited in areas of storage and use. For personal protection see Section 8. Never use pressure to empty: the container is not a pressure vessel. Always keep in containers made of the same material as the supply container. Good housekeeping standards and regular safe removal of waste materials will minimise the risks of spontaneous combustion and other fire hazards. The product may charge electrostatically. Use earthing leads when transferring from one container to another. Operations should wear anti-static footwear and clothing and floors should be electrically conductive. The Manual Handling Operations Regulations may apply to the handling of containers of this product. Refer to the guide weight indicated on the container when carrying out assessments.

Storage: The storage and use of this product is subject to the requirements of the Highly flammable Liquids and Liquefied Petroleum Gases Regulations. Up to 50 litres of such highly flammable liquids may be kept in a work room provided they are kept in a fire-proof cupboard or bin. Larger quantities must be kept in a separate storeroom conforming to the structural requirements of the Regulations. Further guidance is contained in the HSE guidance note Storage of Flammable Liquids in Containers. Observe the label precautions. Store between [5] and [25] °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorised access. Containers which are opened should be properly resealed and kept upright to prevent leakage. The principles contained in the HSE's guidance note Storage of Packaged Dangerous Substances should be observed when storing this product. Store separately from oxidising agents, strongly alkaline and strongly acidic materials.

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8 Exposure controls/personal protection

Engineering Measures: Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and/or solvent vapours below the relevant occupational exposure limits, suitable respiratory protective equipment should be worn. (See 'Personal protection' below)

Exposure Limits:	CAS-nbr.:	Substance	Occupational exposure limits	
			8 hr TWA	
	112-07-2	butylglycol acetate	20	135
	1330-20-7	xylene, isomers	50	210
	108-65-6	MPA-PMA	100	550

Notes: Long term exposure limit - 8 hour time weighted average

Personal Protection: All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of COSHH Regulations.

Respiratory protection : Air-fed respiratory protective equipment should be worn when this product is sprayed if the exposure of the sprayer or the other people nearby cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonably be improved.

Hand protection: When skin exposure may occur, advice should be sought from glove suppliers on appropriate types. Barrier creams may help to protect exposed areas of the skin but are not substitutes for full physical protection. They should not be applied once exposure has occurred.

Eye protection : Eye protection designed to protect against liquid splashes should be worn.

Skin protection: Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner.

9 Physical and chemical properties

physical state :	liquid
flash point:	31°C method: Abel Pensky
viscosity:	80-90/4 method: DIN cup NEN-ISO 2431
specific gravity:	1,267 g/cm ³ method: NEN 5323 ISO 2811
vapour density:	3,7 kPa
upper explosion limit:	0,6 % v/v
lower explosion limit:	10,9 % v/v
solubility in water:	The product is not soluble in water.
V.O.C.:	468-539
Cont. of pigments:	1,2-30,1%

10 Stability and reactivity

Stable under the recommended storage and handling conditions. (See Section 7). In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide and oxides of nitrogen may be produced.

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Product name: **Jawel 2k Acrylic 2-1 mix** (leadfree)

G3400-3450

Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of exothermic reaction.

11 Toxicological information

There is no data available on the product itself.
Exposure to organic solvent vapours may result in adverse health effects such as irritation of the mucous membrane and the respiratory system and adverse effects on the renal and central nervous systems. Symptoms include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness.

Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible local damage.

Ingestion may result in the following effects: sore throat, abdominal pain, drowsiness, nausea, vomiting and diarrhoea. Other effects may be as described for exposure to vapours.

2-Butoxy ethanol/2-Butoxyethanol acetate is readily absorbed through the skin and has adverse effects on the renal system.

12 Ecological information

There is no data available on the product itself. The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters. The Air Pollution Control requirements of regulations made under the Environmental Protection Act may apply to the use of this product.
The product contains Xylene which is classified as Xn.

13 Disposal considerations

Do not allow into drains or water courses or dispose of where ground or surface waters may be affected. Wastes, including emptied containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.
[Using information provided in this data sheet, advice should be obtained from the Waste Regulation Authority whether the special waste regulations apply].

14 Transport information

Transport within the user's premises:

Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage.

Transport details

Domestic road/rail

Class: 3,31c UN number: 1263
Sub hazard: xylene Cas. nbr: 1330-20-7
Proper Shipping Name: paint
Packing Group: III UN number: 1263
Ensure drivers have adequate training.

For international road/rail transport:

Chemical name: Not applicable
UN Number: 1263

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Product name: **Jawel 2K Acrylic 2-1 mix** (leadfree)

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For Sea transport: Class:
Marine Pollutant: no
EmS: 3-05
MFAG: 310

15 Regulatory information

The product is classified and labelled for supply in accordance with the CHIP (Chemicals Hazard Information and Packaging) Regulations as follows:

Symbols: Xn

Contains: Xylene (isomers)

R-Phrases: 10 Inflammable
20 Harmful by inhalation.
21 Harmful in contact with skin.

S-Phrases: 51 Use only in well-ventilated areas.
23 Do not breathe vapour/spray.
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
38 In case of insufficient ventilation, wear suitable respiratory equipment.

The information contained in this data sheet does not constitute the user's own assessment of workplace risks as required by other health and safety legislation. The provisions of the Health and Safety at Work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product at work.

16 Other information

For professional use only.

Text of R phrases listed in Section 2

R 10 Inflammable
R 20 Harmful by inhalation.
R 21 Harmful in contact with skin.
R 36 Irritating to eyes.
R 38 Irritating to skin.

The information contained in this safety data sheet is provided in accordance with the requirements of the CHIP regulations. The product should not be used for purposes other than those shown in Section 1 without first referring to the supplier and obtaining written handling instructions. As the specific conditions of use of the product are outside the supplier's control, the user is responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this safety data sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

Further information and relevant advice can be found in:

The Control of Substances Hazardous to health Regulations 1988 (SI 1988:1657),

The Manual Handling Operations Regulations 1992 (SI 1992:2793)

Storage of Flammable Liquid in containers, HS(G)51

Storage of Packaged Dangerous Substances, HS(G)71

The Environmental Protection (Duty of Care) Regulations 1992 (SI 1992:2839)

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1 Identification of the preparation and company

Product name:	Jawel 2K Acrylic (leadfree)	G3400-3450
Intended use:	Car refinishing	
Name:	Jawel Paints (West Midlands) Ltd	
Telephone number:	0121 558 6193	
Emergency phone number:	0121 558 6191/3	

2 Composition/information on ingredients

Substances presenting a health hazard within the meaning of the CHIP (Chemicals Hazard Information and Packaging) or assigned occupational exposure limits.

	Name	Conc. range (%)	Symbol letter	R-phrases (*)
CAS-nbr.: 1330-20-7	xylene, isomers	10- 25	Xn	10 20 21 38
CAS-nbr.: 108-65-6	MPA-PMA	3 - 5	Xi	10 36
CAS-nbr.: 112-07-2	butylglycol acetate	1 - 3	Xn	20 21

(*) for full text see Section 16

3 Hazards identification

Inflammable
Harmful by inhalation and in contact with skin.

4 First aid measures

General:	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation:	Remove to fresh air, keep the patient warm and at rest. If breathing has stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in the recovery position and seek medical advice.
Eye contact:	Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
Skin contact:	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a proprietary skin cleaner. Do NOT use solvents or thinners.
Ingestion:	If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

5 Fire fighting measures

Extinguishing media:

Recommended:	alcohol resistant foam, CO2, powder water spray/mist
Not to be used:	water jet.
Recommendations:	Fire will produce dense black smoke containing hazardous products of combustion (see Section 10). Decomposition products may be a hazard to health. Appropriate self-contained breathing apparatus may be required. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

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