JAWEL PAINTS TECHNICAL DATA SHEET

JAWEL BRAND 2K 4:1 HS HIGH BUILD PRIMER (GREY)

DESCRIPTION

2K-4:1 HS HIGH BUILD PRIMER is a top quality, 2 pack acrylic primer-filler, available in beige or grey, it contains anti-corrosive pigments and is chromate- free. It has excellent application properties, is quick drying and is easy to sand. It is suitable for many different substrates including correctly prepared bare steel, fibreglass and sound original finishes. For maximum adhesion to aluminium an etch primer should first be applied. It is suitable for use under a wide variety of topcoats particularly 2K acrylics and basecoat / clear systems.

PREPARATION OF SUBSTRATE

1: Bare Steel - Clean with pre-cleaning solvent, sand with P180 and clean again with pre-cleaning solvent
2: Aluminum and Galvanized Substrates - As for bare steel but then apply an etch primer and allow to dry for 1 hour prior to application of the **2K 4:1 HS HIGH BUILD PRIMER.**
3: Fibre Glass - Remove release agent with warm soapy water. Rinse, dry and clean with pre-cleaning solvent. Sand surface with P180. Clean again with pre-cleaning solvent.
4: Previously Painted Surfaces in sound condition - Clean with suitable Pre-cleaning solvent, sand with P180 and clean again with pre-cleaning solvent

MIXING

Mix by volume 4 parts **2K 4:1 HS HIGH BUILD PRIMER:** 1 part **2K PRIMER HARDENER.** Up to 30% by volume of 2K FAST thinner may be added as required. The recommended spray viscosity is 18 sec. DIN 4 @ 20^0C.
The mixing ratio by weight is 7 parts **2K 4:1 HS HIGH BUILD PRIMER :** 1 part **2K PRIMER HARDENER.** Up to 20% by weight of 2K FAST THINNER may be added as required.

SPRAY PRESSURE - 50 -60 PSI (3-4 bar) at gun.
GUN SET UP 1.4 -1.7 mav nozzle e.g. SATA MSH, MSB or DEVILBISS JGA FW/86

APPLICATION

1: As a high build primer use minimum amount of thinner and apply 2-3 coats with 10 mins. flash off between coats to give 100-150 microns dry film thickness.
2: As a conventional primer-filler add up to 30% thinner and apply 2 coats to give approx. 50 microns dry film thickness.
POT LIFE Approximately 2 hrs. at 20^0C depending upon the amount of thinner used.
DRYING
AIR DRYING:- When used as a high build primer-filler the film can be wet flatted after air drying for approx. 3hrs.and when used as a conventional primer-filler after air drying for 2hrs. depending upon temperature and conditions. N.B. Primer must be fully cured before flatting.
STOVING:- When used as a high build primer-filler stove for 30mins. at 60^0C panel temperature.
When used as a conventional primer-filler stove for 20 mins. at 60^0C panel temperature.
INFRA-RED 10-15 mins. using conventional infra-red.
FLASH POINT 22^0c - 32^0c

STORAGE
Unmixed, correctly stored material, in firmly closed original contains, has a shelf life of over a year. Contents of opened containers should be used up quickly. Always replace hardener caps immediately. Hardened mixtures cannot be stored.

HEALTH & SAFETY
Refer to relevant Health and Safety Data Sheet, reference no. HSD0501/0502.

NOTE
This data relates only to the product designated herein and does not apply to use in combination with any other materials or in any other process.
The data is not to be considered as a warranty or quality specification and we assume no liability in connection with its use.
Our product range is under continuous development and therefore products and specifications are subject to change without notice.
This product is for professional use only.

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1 : IDENTIFICATION OF THE PREPARATION AND COMPANY Jawel Paints(West Midlands) Ltd Units 313-317, Heath St, Smethwick, West Midlands, B66 2QY Tel:0121-558-6191

Intended use: **For professional use only.** A component of a complete system of coatings for the finishing and repair of vehicles. For use by trained staff in properly equipped industrial premises. Do not use for any other purpose without asking us for written handling instructions.

Product name and reference no. 2K GREY 4:1 HIGH BUILD PRIMER Jawel Brand

2 : COMPOSITION / INFORMATION ON INGREDIENTS.

Substances presenting an health hazard within the meaning of the Dangerous Substances Directive 67/548/EEC, or subject to recognised exposure limits.

CAS No.	NAMES	CONCENTRATION LIMITS	SYMBOL	R PHRASES(See full text of phrases under Section 16
1330-20-7	XYLENE MIXTURE OF ISOMERS	10-25%	Xn	20 / 21-38
123-86-4	N.BUTYL ACETATE	10-25%		
100-41-4	ETHYL BENZENE	1-2.5%	Xn	11-20

3 : HAZARDS IDENTIFICATION OF THE PREPARATION.

Flammable.

4 : FIRST AID MEASURES:

General : In all cases of doubt, or where symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation : Remove to fresh air, kept patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Give nothing by mouth. If unconscious, place in 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, CO_2, powders, water spray / mist.
Not to be used : water jet.

Recommendations : Fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to 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.

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 spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal in accordance with the waste regulations (see Section 13). Clean preferably with a detergent; avoid use of solvents.

Do not allow to enter drains or water courses. If the product enters drains or sewers, the local water authority should be contacted immediately; in the case of contamination of streams rivers or lakes: the National Rivers Authority (G.B.), DoE Environment Service (NI).

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 concentration 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 container tightly closed. Isolate from sources of heat. sparks and open flame. No 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 original supply container.

Good housekeeping standards and regular safe removal of waste materials will minimise risks of spontaneous combustion and other fire hazards.
The product may charge electrostatically. Use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing and floors should be of the conducting type. The requirements of regulations made under the Health and Safety at Work etc. Act 1974(GB). the Health and Safety at Work etc. Order 1978 (NI) should be complied with.

The Manual Handling Operations Regulations 1992 (GB and NI) may apply to the handling of containers of this product. Refer to the published guide weight when carrying out Dry assessments.

Storage: Store in accordance with the conditions of licence necessary under the Petroleum (Consolidation) Act 1928 (GB). the Petroleum (Consolidation) Act (Nli 1929(NI). Further guidance is contained in HSE Guidance Note HS(G)S1. Storage of Flammable Liquids in Containers.

Observe label precautions. Store between 5 and 30 degrees 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 must be carefully resealed and stored upright to prevent leakage. The principles contained in the HSE Guidance Note HS(G)71. Storage of Packaged Dangerous Substances, should be observed when storing this product.
Store separately from oxidising agents, from strongly alkaline and strongly acid materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Measures: Provide adequate ventilation. Where reasonably practicable. local exhaust ventilation and good general extraction should be installed. Suitable respiratory protective equipment should also be worn (see "Personal Protection" below).

exposure Limits: Occupational exposure limit (OEL) for:

		LTEL(1)		STEL(2)		NOTES
		ppm	Mg/m^3	ppm	Mg/m^3	
1330-20-7	XYLENE MIXTURE OF ISOMERS	100	435	150	650	SK
123-86-4	N.BUTYL ACETATE	150	710	710	950	
100-41-4	ETHYL BENZENE	100	435	125	545	

according to HSE Guidance Note EH40 (current edition) unless otherwise stated.

(1) Long term exposure limit - 8 hours time weighted average.
(2) Short term exposure limit - 10 minutes reference period.
(3) (M) Maximum Exposure Limit (MEL) - Where a MEL has been set exposure should be reduced as far as is reasonably practicable.
(R) Recommended by suppliers.
(Sk) There is a risk of absorption through unbroken skin.
(Sen) Respiratory sensitiser.

Personal Protection: All personal protective equipment should be in conformity with the Provision & Use of PPE Regulations 1992 (GB), the PPE at Work Regulations (NI). 1993(NI).

Respiratory protection: Air-fed respiratory equipment should be worn when this product is sprayed. Other people nearby should be similarly protected if exposure cannot be controlled to below the occupational exposure limit and engineering controls and methods cannot reasonable be improved.

Dry sanding, welding and/or flame cutting of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Further information on respiratory protective equipment is available in HSE publication "Respiratory Protective Equipment" Third Edition ISBN 011 886382 7.

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 skin but are not substitutes for full physical protection, and 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 sical state : Liquid
Vapours denser than air.
Solubility in water : immiscible

	Viscosity	Flashpoint	Specific Gravity	LEL
BSB4 Flow Cup@20C				
>90”	23Deg C	1.44	1.4%	

10: STABILITY AND REACTIVITY
Stable under recommended storage and handling conditions (see Section 7). In a fire hazardous decomposition products such as carbon monoxide and dioxide, smoke and oxides of nitrogen may be produced. Keep away from oxidising agents, strongly alkaline and strongly acid materials to prevent the possibility of exothermic reactions.

11. TOXICOLOGICAL INFORMATION
There is no data available on the product itself.
Exposure to organic solvent vapours above the OEL's may result in adverse health effect such as irritation of the mucous membrane and respiratory system and adverse effect on kidney, liver and central nervous system. 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 fat 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.
COSHH requires that persons exposed to products containing isocyanates, which are respiratory sensitisers, be subject to appropriate health surveillance, see "Surveillance of people exposed to health risks at work". HSE 1990 ISBN 011 885574 3.

12.ECOLOGICAL INFORMATION
There is no data available on the product itself.
The product should not be allowed to enter drains or watercourses. or be deposited where it can affect ground or surface waters. The air pollution control requirements or regulations made under the Environmental Protection Act 1990 (GB) or the Air Pollution Act 1987 may apply to the use of this product.

13. DISPOSAL CONSIDERATIONS
Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected.
Residues in emptied containers should be neutralised with decontaminant (see Section 6). Waste, including empty containers, are controlled wastes and should be disposed of in accordance with regulations made under the Control of Pollution Act 1974 and the Environmental Protection Act 1990(GB). or the Pollution Control and Local Government (NI) Order 1978 (NI).
Using information provided in this data sheet. advice should be obtained from the Waste Regulation Authority whether the Special Waste Regulations 1980 (GB). or the Pollution Control (Special Waste) Regulations (NI) 1981 (NI) apply.

14. TRANSPORT INFORMATION
Transport only in accordance with CHIP (Great Britain) or ADR (rest of Europe) for road. RID for rail. IMDG for sea and ICAO/IATA for air transport.

Refer to us for instructions on air transport.

UK road: Class: 3 Sub-risk: non. Packing group :III
ADRIRID: Class: 3 Item: 31’C Packing group :III. Transport document name- see Product Name Sub risk none
IMDG: Class: 3.2 Sub-risk: none Marine pollutant: .UN No: 1263. Packing group : lll . EmS: 3-05 MFAG: 310 Proper Shipping name: PAINT RELATED MATERIAL

15 : REGULATORY INFORMATION

The product is classified and labelled as follows under the CHIP Regulations 1993 (G8). 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 1974 and the Control of Substances Hazardous to Health Regulations 1988 (GB). or the Health and Safety at Work etc. Order 1 978 the Control of Substances Hazardous to Health Regulations (NI) 1 990 (NI) apply to the use of this product at work.

FLAMMABLE. KEEP OUT OF REACH OF CHILDREN. USE ONLY IN WELL-VENTILATED AREAS. DO NOT BREATHE VAPOUR/ SPRAY.

16 : OTHER INFORMATION

The full texts of the risk phrases appearing in Section 2 are as follows:

R20 Harmful by inhalation
R20 / 21 Harmful by inhalation and in contact with skin
R38 Irritating to skin.

The information contained in this Safety Data Sheet is provided in accordance with the requirements of the Chemicals (Hazard Information and Packaging) Regulations 1993 (GB) or the Chemicals (Hazard Information and Packaging) Regulations (NI) 1993.

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.