

SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 1. SUPPLIER IDENTIFICATION

Name : **CJSA**
Address : Unit 2, 18 Farrow Circuit Seaford Rise,
South Australia 5169,
Australia.

The details and information stated within this SDS have been provided by the manufacturer.
Manufacturer's Reference Number: BOS0020302
Refer to www.cjsa.net.au to obtain the most recent SDS.

SECTION 1.1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name : J-Seal® N49 Primer
Manufacturer's Reference : 02-Jun-2015

SECTION 2. HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

Skin Corrosion/Irritation	Category 2 (6.3A)
Serious Eye Damage/Eye Irritation	Category 2 (6.4)
Reproductive toxicity	Category 2 (6.8B)
Specific target organ toxicity (repeated exposure)	Category 2 (6.9B)
Acute aquatic toxicity	Category 2 (9.1D)
Chronic aquatic toxicity	Category 2 (9.1B)
Flammable Liquids	Category 2 (3.1B)

ERMA Group : No information available

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The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice.

CJSA

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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 2. HAZARDS IDENTIFICATION (continued)

2.2. Label Elements



Signal Word **DANGER**

Hazard Statements

- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H361 Suspected of damaging fertility or the unborn child
- H373 May cause damage to organs through prolonged or repeated exposure
- H411 Toxic to aquatic life with long lasting effects
- H225 Highly flammable liquid and vapor

Precautionary Statements - Prevention

- P201 Obtain special instructions before use
- P202 Do not handle until all safety precautions have been read and understood
- P281 Use personal protective equipment as required
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P260 Do not breathe dust/fume/gas/mist/vapors/spray
- P273 Avoid release to the environment
- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge

Precautionary Statements - Response

- P308 + P313 IF exposed or concerned: Get medical advice/attention
- P321 Specific treatment

Skin

- P332 + P313 If skin irritation occurs: Get medical advice/attention
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P363 Wash contaminated clothing before reuse

Eyes

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P337 + P313 If eye irritation persists: Get medical advice/attention

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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 2. HAZARDS IDENTIFICATION (continued)

Fire

In case of fire: Use CO₂, dry chemical, or foam to extinguish

Spill

P391 Collect spillage

Precautionary Statements - Storage

P405 Store locked up

P403 + P235 Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

P501 Dispose of contents/ container to an approved waste disposal plant

2.3. Other Hazards

- May be fatal if swallowed and enters airways
- May be harmful if swallowed
- May cause drowsiness or dizziness

2.4. Additional Information

This product requires child resistant fastenings if supplied to the general public. This product requires child resistant fastenings when supplied to the general public unless the product is placed on the market in the form of aerosols or in a container with a sealed spray attachment. Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

This product is a mixture. Health hazard information is based on its components.

3.2 Mixtures

Chemical Name	CAS No	Weight-%
Toluene	108-88-3	50 - 60
Ethyl acetate	141-78-6	10 - 20
Benzene, 1,3-diisocyanatomethyl-	26471-62-5	< 1

*** Any remaining ingredients are not hazardous



SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 4. FIRST AID MEASURES

4.1. Description of First Aid Measures

General Advice	If medical advice is needed, have product container or label at hand.
Inhalation	Remove to fresh air.
Skin Contact	Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
Eye Contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
Ingestion	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.
Self-protection of the First Aider	Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed

Symptoms None known.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

4.4. Reference to Other Sections

Reference to Other Sections	SECTION 12: Ecological Information
	SECTION 7: Handling and Storage
	SECTION 8: Exposure Controls/Personal Protection

SECTION 5. FIRE FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media	Use CO ₂ , dry chemical, or foam.
Unsuitable Extinguishing Media	No information available.

5.2. Special Hazards Arising from the Substance or Mixture

Specific Hazards Arising from the Chemical	Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).
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5.3. Advice for Firefighters

Special Protective Equipment for Fire-fighters	Wear self contained breathing apparatus for fire fighting if necessary.
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SAFETY DATA SHEET

J-Seal[®] N49 Primer

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions

Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas.

For Emergency Responders

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.2. Environmental Precautions

Environmental Precautions

Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

6.3. Methods and Material for Containment and Cleaning up

Methods for Containment

Dike far ahead of spill; use dry sand to contain the flow of material. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

Methods for Cleaning up

Soak up with inert absorbent material.

6.4. References to Other Sections

Reference to Other Sections	SECTION 12:	Ecological Information
	SECTION 7:	Handling and Storage
	SECTION 8:	Exposure Controls/Personal Protection

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Advice on Safe Handling	Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Take precautionary measures against static charges. Use explosion-proof electrical / ventilating / lighting / equipment.
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7.2. Conditions for Safe Storage, including any Incompatibilities

General Hygiene Considerations	Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended.
Storage Conditions	Keep only in the original container/package in a cool well-ventilated place.
Incompatible Materials	Strong acids and bases



SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 7. HANDLING AND STORAGE (continued)

7.3. Specific End Use(s)

Other Information No information available.

7.4. References to Other Sections

Reference to Other Sections	SECTION 12: Ecological Information
	SECTION 7: Handling and Storage
	SECTION 8: Exposure Controls/Personal Protection

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION

8.1. Control Parameters

Exposure Limits

<u>Chemical Name</u>	<u>ACGIH TLV</u>	<u>NIOSH IDLH</u>	<u>OSHA PEL</u>	<u>European Union</u>
Toluene 108-88-3	TWA: 20 ppm	IDLH: 500 ppm TWA: 100 ppm TWA: 375 mg/m ³ STEL: 150 ppm STEL: 560 mg/m ³	TWA: 200 ppm Ceiling: 300 ppm	TWA: 50 ppm TWA: 192 mg/m ³ STEL: 100ppm STEL: 384mg/m ³ S*
Ethyl acetate 141-78-6	TWA: 400 ppm	IDLH: 2000 ppm TWA: 400 ppm TWA: 1400 mg/m ³	TWA: 400 ppm TWA: 1400 mg/m ³	-
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	STEL: 0.02 ppm TWA: 0.005 ppm	-	-	-

<u>Chemical Name</u>	<u>Australia</u>	<u>China</u>	<u>Japan</u>	<u>Korea</u>	<u>New Zealand</u>
Toluene 108-88-3	50 ppm 191 mg/m ³ 150 ppm STEL 574 mg/m ³ STEL Skin	TWA: 50 mg/m ³ STEL: 100 mg/m ³ Skin	TWA: 50 ppm TWA: 188 mg/m ³ Skin ISHL/ACL: 20 ppm	STEL: 150 ppm STEL: 560 mg/m ³ TWA: 50 ppm TWA: 188 mg/m ³	TWA: 50 ppm TWA: 188 mg/m ³ Skin
Ethyl acetate 141-78-6	200 ppm 720 mg/m ³ 400 ppm STEL 1440 mg/m ³ STEL	TWA: 200 mg/m ³ STEL: 300 mg/m ³	TWA: 200 ppm TWA: 720 mg/m ³ ISHL/ACL: 200 ppm	TWA: 400 ppm TWA: 1400 mg/m ³	TWA: 200 ppm TWA: 720 mg/m ³
Benzene, 1,3- diisocyanatomethyl- 26471-62-5	-	-	Ceiling: 0.02 ppm Ceiling: 0.14 mg/m ³ TWA: 0.005 ppm TWA: 0.035 mg/m ³ ISHL/ACL: 0.005 ppm	-	-

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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 8. EXPOSURE CONTROL / PERSONAL PROTECTION (continued)

Derived No Effect Level (DNEL)	:	No information available
Predicted No Effect Concentration (PNEC)	:	No information available
Other Information	:	No information available

8.2. Exposure Controls

Engineering Controls : Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment (PPE)

Eye/Face Protection	Wear safety glasses with side shields (or goggles).
Skin and Body Protection	Wear suitable protective clothing. No special technical protective measures are necessary under normal conditions.
Hand Protection	Wear suitable chemical resistant gloves. The selection of suitable gloves does not only depend on the material, but also on further marks of quality and various manufacturers.
Respiratory Protection	No protective equipment is needed under normal use conditions. Respiratory protection required in insufficiently ventilated working areas and during spraying. An air-fed mask, or for short periods of work, a combination of professional filter is recommended.
General Hygiene Considerations	Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Avoid contact with skin, eyes or clothing. Take off contaminated clothing and wash before reuse.
Environmental Exposure Controls	No information available.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Odor	Solvent
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/Method</u>
pH	No information available	
Melting Point/Freezing Point	No information available	
Boiling Point	> 56 °C / 96.8 °F	
Flash Point	= 4 °C / 33.8 °F	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
Upper Flammability Limits	No information available	
Lower Flammability Limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	No information available	
Solubility in Other Solvents	No information available	
Partition Coefficient	No information available	
Evaporation Rate	No information available	
Autoignition Temperature	No information available	

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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES (continued)

Decomposition Temperature	No information available
Kinematic Viscosity	No information available
Dynamic Viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

9.2. Other Information

Softening Point	No information available
Molecular Weight	No information available
Solvent Content (%)	No information available
Solid Content (%)	No information available
Density	0.84
Bulk Density	No information available

SECTION 10. STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity	Stable under recommended storage conditions.
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10.2. Chemical Stability

Stability	Stable under recommended storage conditions
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10.3. Possibility of Hazardous Reactions

Possibility of Hazardous Reactions	None under normal processing.
Hazardous Polymerization	None under normal processing.

10.4. Conditions to Avoid

Conditions to Avoid	Keep away from heat, sparks and flames.
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10.5. Incompatible Materials

Incompatible Materials	Strong acids and bases.
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10.6. Hazardous Decomposition Products

Hazardous Decomposition Products	Carbon oxides.
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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION II. TOXICOLOGICAL INFORMATION

II.1. Information on Toxicological Effects

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information
Inhalation	No data available.
Eye Contact	No data available.
Skin Contact	No data available.
Ingestion	No data available.

<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
Ethyl acetate 141-78-6	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20 mL/kg (Rabbit)	-
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	= 3060 mg/kg (Rat)	= 10000 mg/kg (Rabbit)	= 0.099 mg/L (Rat) 4 h

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Skin Corrosion/Irritation	No information available.
Serious Eye Damage/Eye Irritation	No information available.
Sensitization	No information available.
Germ Cell Mutagenicity	No information available.
Carcinogenicity	The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.
Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard.
STOT - Single Exposure	No information available.
STOT - Repeated Exposure	No information available.
Target Organ Effects	Central nervous system, Eyes, Kidney, Liver, Respiratory system, Skin.
Aspiration Hazard	No information available.
Carcinogenicity	The following substance(s) are classified in Annex VI CLP (1272/2008) as carcinogenic.

<u>Chemical Name</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Toluene 108-88-3	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat) 4 h
Ethyl acetate 141-78-6	= 5620 mg/kg (Rat)	> 18000 mg/kg (Rabbit) > 20 mL/kg (Rabbit)	-

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans Group 3 - Not classifiable as a human carcinogen



SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity

Toxic to aquatic life with long lasting effects.

<u>Chemical Name</u>	<u>Algae/Aquatic Plants</u>	<u>Fish</u>	<u>Crustacea</u>
Toluene 108-88-3	EC50 96 h > 433 mg/L (Pseudokirchneriella subcapitata) EC50 72 h = 12.5 mg/L (Pseudokirchneriella subcapitata)	LC50 96 h 15.22 - 19.05 mg/L (Pimephales promelas flow-through) LC50 96 h = 12.6 mg/L (Pimephales promelas static) LC50 96 h 5.89 - 7.81 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h 14.1 - 17.16 mg/L (Oncorhynchus mykiss static) LC50 96 h = 5.8 mg/L (Oncorhynchus mykiss semi-static) LC50 96 h 11.0 - 15.0 mg/L (Lepomis macrochirus static) LC50 96 h = 54 mg/L (Oryzias latipes static) LC50 96 h = 28.2 mg/L (Poecilia reticulata semi-static) LC50 96 h 50.87 - 70.34 mg/L (Poecilia reticulata static)	EC50 48 h 5.46 - 9.83 mg/L (Daphnia magna Static) EC50 48 h = 11.5 mg/L (Daphnia magna)
Ethyl acetate 141-78-6	EC50 48 h = 3300 mg/L (Desmodesmus subspicatus)	LC50 96 h 220 - 250 mg/L (Pimephales promelas flow-through) LC50 96 h = 484 mg/L (Oncorhynchus mykiss flow-through) LC50 96 h 352 - 500 mg/L (Oncorhynchus mykiss semi-static)	EC50 48 h = 560 mg/L (Daphnia magna Static)

12.2. Persistence and Degradability

No information available.

12.3. Bioaccumulative Potential

No information available.

12.4. Mobility in Soil

No information available.

12.5. Results of PBT and vPvB Assessment

No information available.

12.6. Other Adverse Effects

No information available.



SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 13. DISPOSAL CONSIDERATION

13.1. Waste Treatment Methods

Waste from Residues/Unused Products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

SECTION 14. TRANSPORT INFORMATION

IMDG

UN/ID No UN1133
 Proper Shipping Name Adhesives
 Hazard Class 3
 Packing Group II
 EmS-No F-E, S-D

IATA

UN/ID No UN1133
 Proper Shipping Name Adhesives
 Hazard Class 3
 Packing Group II
 ERG Code 3L

ADR

UN/ID No UN1133
 Proper Shipping Name Adhesives
 Hazard Class 3
 Packing Group II
 Classification Code FI
 Tunnel Restriction Code (D/E)

SECTION 15. REGULATORY INFORMATION

International Regulations

International Inventories

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory	Listed
PICCS - Philippines Inventory of Chemicals and Chemical Substances	Listed
ENCS - Japan Existing and New Chemical Substances	Listed
IECSC - China Inventory of Existing Chemical Substances	Listed
AICS - Australian Inventory of Chemical Substances	Listed
KECL - Korean Existing and Evaluated Chemical Substances	Listed
NZIoC - New Zealand Inventory of Chemicals	Listed

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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 15. REGULATORY INFORMATION (continued)

National Regulations

China

Not Applicable

<u>Chemical Name</u>	<u>Weight (%)</u>	<u>List of Dangerous Goods</u>
Toluene 108-88-3	50 - 60	X
Ethyl acetate 141-78-6	10 - 20	X

Japan

This product contains the following Class 1 and Class 2 Designated Chemical Substances per Japan PRTR Law.

<u>Chemical Name</u>	<u>Weight (%)</u>	<u>List of Dangerous Goods</u>
Toluene 108-88-3	50 - 60	X
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	< 1	X

Korea

K-REACH/chemical control act(CCA)

Not applicable

<u>Chemical Name</u>	<u>Weight (%)</u>	<u>Korea - MOE - K-REACH/CCA - Toxic Substances</u>	<u>Korea - MOE - K-REACH/CCA - Prohibited Substances</u>	<u>Korea - MOE - K-REACH/CCA - Restricted Substances</u>	<u>Korea - MOE - Chemicals Control Act (CCA) - Accident Precaution Chemicals</u>
Toluene 108-88-3	50 - 60	X			X
Ethyl acetate 141-78-6	10 - 20	X			X
Benzene, 1,3-diisocyanatomethyl- 26471-62-5	< 1	X			

Legend

X - Present

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SAFETY DATA SHEET

J-Seal® N49 Primer

SECTION 15. REGULATORY INFORMATION (continued)

Europe

Restrictions of Use of Hazardous Substances (RoHS) Directive 2011/65/EU

This product does not contain Lead (7439-92-1), Cadmium (7440-43-9), Mercury (7439-97-6), Hexavalent chromium (7440-47-3), Polybrominated biphenyls (PBB), and Polybrominated diphenyl ethers (PBDE) above the regulated limit mentioned in this regulation.

EU-REACH (1907/2006) - Candidate List of Substances of Very High Concern (SVHC) for Authorization in accordance with Article 59

This product does not contain a substance(s) on the SVHC as proposed by ECHA above a concentration of 0.1 wt. %

SECTION 16. OTHER INFORMATION

Key or Legend to Abbreviations and Acronyms Used in the Safety Data Sheet

No information available

Key Literature References and Sources for Data

No information available

Prepared By	Product Safety & Regulatory Affairs
Revision Date	02-Jun-2015
Revision Note	Not Applicable.
Training Advice	Provide adequate information, instruction, and training for operator
Further Information	No information available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

The information and the recommendations relating to the application and end use of this product are given in good faith and are based on the information provided by the manufacturer of the product and/or the Company's current knowledge and experience in connection with the product when properly stored, handled and applied under normal conditions and no liability of final function at the job site is assumed. In practice, the differences in materials substrates and actual site conditions are such that no warranty in respect of merchantability of or fitness for particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written and/or oral recommendations, or from any other advice offered by the Company. The Company also has no express or implied knowledge of any particular purpose for which the product is required and any such information given will not be taken into account in the supply of this product. No responsibility or liability by the Company will be accepted for misuse, misreading or derivation from recommended guidelines in respect of this product and the user shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. The information contained in our brochure may change at any time without notice.

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