



MATERIAL SAFETY DATA SHEET

ZTG WB SEALER CLEAR 619000

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE

Product Code	:	ZTG WB SEALER CLEAR 619000

Product name : ZTG WB Sealer Clear 619000

SECTION 2. HAZARDS IDENTIFICATION

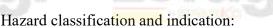


Classification of the substance or mixture.



The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2015/830.



2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.



Hazard pictograms:

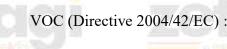
Signal words:

Hazard statements:

EUH210

Safety data sheet available on request.

Precautionary statements:



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Limit value: 140,00 (2010) VOC of product : 89,95 - Catalysed with : 10,00 % 730070 HARDENER "W" MB	Two-pack performar VOC given in g/litre	•	a ready-to-use condition :	
	Limit value: 140,0	00 (2010)		
- Catalysed with : 10,00 % 730070 HARDENER "W" MB	VOC of product :	89,95		
	- Catalysed with :	10,00 %	730070 HARDENER "W" MB	
	- BRARIO	THE SEA		

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS.

3.1. Substances.

Information not relevant.

3.2. Mixtures.

Contains:

Identification. x = Conc. %.

Classification 1272/2008 (CLP)

2-(2-BUTOXYETHOXY)ETHANOL CAS 112-34-5 $4 \le x < 5$ EC 203-961-6 INDEX 603-096-00-8 Reg. no. 01-2119475104-44

Eye Irrit. 2 H319

DIPROPYLENE GLYCOL MONOMETHYL ETHER

CAS 34590-94-8 $1,5 \le x < 2$

Substance with a community workplace exposure limit.

EC 252-104-2 INDEX Reg. no. 01-2119450011-60

2-BUTOXYETHANOL CAS 111-76-2 $1,5 \le x < 2$



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Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Irrit. 2 H319,





EC 203-905-0 INDEX 603-014-00-0 Reg. no. 01-2119475108-36



The full wording of hazard (H) phrases is given in section 16 of the sheet. **SECTION 4. FIRST AID MEASURES.**

4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

Skin Irrit. 2 H315

SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor.

4.2. Most important symptoms and effects, both acute and delayed.

Specific information on symptoms and effects caused by the product are unknown. For symptoms and effects caused by the contained substances, see chap. 11

4.3. Indication of any immediate medical attention and special treatment needed.

Information not available.

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SECTION 5. FIREFIGHTING MEASURES.

5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

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The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.



5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE Do not breathe combustion products

5.3. Advice for firefighters.

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures. Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination



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of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. If the product is flammable, use explosion-proof equipment. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. HANDLING AND STORAGE

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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7.3. Specific end use(s). Information not available.



SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION.

8.1 Exposure controls.



As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.



Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION



the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a type AX filter, whose limit of use will be defined by the manufacturer (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	clear
Odour	characteristic
Odour threshold.	Not available.
pH.	Not available.
Melting point / freezing point.	Not available.
Initial boiling point.	Not available.
Boiling range.	Not available.
Flash point.	> 60°C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vap <mark>our</mark> pressure.	Not available.
Vapour density	Not available.
Relative density.	1.10

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Solubility	soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	Not availab <mark>le.</mark>
Explosive properties	Not available.
Oxidising properties	Not available.

 9.2.
 Other information.

 VOC (Directive 2010/75/EC) :
 6,75 % - 74,22
 g/litre

 VOC (volatile carbon) :
 1,82 % - 20,04
 g/litre

SECTION 10. STABILITY AND REACTIVITY.

10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react with: oxidising substances. When heated to decomposition releases: harsh fumes, zinc alloys.

2-BUTOXYETHANOL

Decomposes under the effect of heat.



10.2. Chemical stability.



The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

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2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium.May form explosive mixtures with: air.

2-BUTOXYETHANOL

May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

2-(2-BUTOXYETHOXY)ETHANOL Avoid exposure to: air.

2-BUTOXYETHANOL Avoid exposure to: sources of heat,naked flames.



10.5. Incompatible materials.

2-(2-BUTOXYETHOXY)ETHANOL Incompatible with: oxidising substances, strong acids, alkaline metals.

10.6. Hazardous decomposition products.

2-(2-BUTOXYETHOXY)ETHANOL May develop: hydrogen.

2-BUTOXYETHANOL May develop: hydrogen.

SECTION 11. TOXICOLOGICAL INFORMATION.



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In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects.



2-(2-BUTOXYETHOXY)ETHANOL

Can be absorbed by inhalation, ingestion and skin contact; it is irritant to the skin and especially to the eyes; spleen damage may occur. Inhalation is unlikely to occur at room temperature due to the low vapour tension of the substance.

ACUTE TOXICITY

LC50 (Inhalation) of the mixture: LC50 (Inhalation - mists / powders) of the mixture:

LD50 (Oral) of the mixture: LD50 (Dermal) of the mixture:

2-(2-BUTOXYETHOXY)ETHANOL LD50 (Oral) 3384 mg/kg Rat LD50 (Dermal) 2700 mg/kg Rabbit

2-BUTOXYETHANOL

615 mg/kg Rat LD50 (Oral)

405 mg/kg Rabbit LD50 (Dermal) 2,2 mg/l/4h Rat LD50 (Inhalation) > 20 mg/l Not classified (no significant component). >2000 mg/kg >2000 mg/kg



SKIN CORROSION / IRRITATION Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION Does not meet the classification criteria for this hazard class

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RESPIRATORY OR SKIN SENSITISATION Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY Does not meet the classification criteria for this hazard class REPRODUCTIVE

TOXICITY Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE Does not meet the classification criteria for this hazard class S

STOT - REPEATED EXPOSURE Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD Does not meet the classification criteria for this hazard class



SECTION 12. DISPOSAL CONSIDERATIONS.

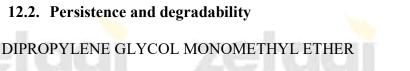
Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.





2-(2-BUTOXYETHOXY)ETHANOL LC50 - for Fish 2850 mg/l/96h DAFNIA

12.2. Persistence and degradability



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1000 - 10000 mg/l Solubility in water Rapidly degradable 2-(2-BUTOXYETHOXY)ETHANOL Solubility in water 1000 - 10000 mg/l Rapidly degradable **2-BUTOXYETHANOL** 1000 - 10000 mg/l Rapidly degradable Solubility in water **12.3.** Bioaccumulative potential DIPROPYLENE GLYCOL MONOMETHYL ETHER Partition coefficient: n-octanol/water 0.0043 2-(2-BUTOXYETHOXY)ETHANOL Partition coefficient: n-octanol/water 1 **2-BUTOXYETHANOL** Partition coefficient: n-octanol/water 0,81 12.4. Mobility in soil Information not available 12.5. Results of PBT and vPvB assessment On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

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Reuse, when possible. Neat product residues should be considered special nonhazardous waste.



Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. CONTAMINATED PACKAGING Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

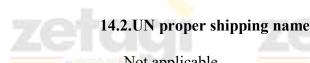
SECTION 14. TRANSPORT INFORMATION



The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

14.1.UN number

Not applicable



Not applicable

14.3.Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable



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SECTION 15. REGULATORY INFORMATION

Information not relevant

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006 Contained substance

Point 55 2-(2-BUTOXYETHOXY)ETHANOL Reg. no.: 01-2119475104-44

Substances in Candidate List (Art. 59 REACH) On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH) None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None



Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Healthcare controls Information not available

VOC (Directive 2004/42/EC) : Two-pack performance coatings





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SECTION 16. OTHER INFORMATION

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Irrit. 2	Skin irritation, category 2
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
EUH210	Safety data sheet available on request.



LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit

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- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

- 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
- 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
- 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament
- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
- 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
- 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
- 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
- 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
- 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
- 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
- 13. Regulation (EU) 2017/776 (X Atp. CLP)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. 10th Edition
- Handling Chemical Safety
- INRS Fiche Toxicologique (toxicological sheet)
- Patty Industrial Hygiene and Toxicology
- N.I. Sax Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals Ministry of Health and ISS (Istituto Superiore di Sanità) Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.



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The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products.

Product's classification is based on the calculation methods set out in Annex I of the CLP Regulation, unless otherwise indicated in sections 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

The data and information contained in this Material Safety Data Sheet is provided to the best of our knowledge and ability on existing hazards, properties and handling of this product as recommended. It is recommended that the user tests the product according to its purpose. The user is responsible for the proper, safe and lawful use of this product. The information contained in this MSDS is subject to change without further notice. ©20

















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PRODUCT SPECIFICATION SHEET

I. PRODUCT NAME



ZTG WB SEALER CLEAR 619000

II. DESCRIPTION

Water based one-two component primer.

III. MAIN FEATURES

Water based one-two component primer based on an acrylic copolymer with OH functional groups, it can be cross linked by aliphatic isocyanate hardener code 730070.

Very clear and especially suitable as a sealer for the painting of furniture and related products, it can be easily roughened by sandpaper. The type of resins, along with the remaining components of the formulation, give the film excellent wetting of the substrate and speed of drying.

Store the product in cans not containing metals such as iron, copper, zinc, aluminum and their alloys.

IV. RECOMMENDED USE

Suitable for the coating of furniture, doors and entrance doors as described above.

V. TECHNICAL DATA

Туре	Internal method	Standard	Meas.	T Ref.	Value
		C BRARKS	unit	0.1179.12	
Specific gravity	MS 018	ASTM D1475 ISO 28811-1;1997	kg/dm ³	23°C	
Base					1.04 ± 0.0
Mixed					1.05 ± 0.0
Solid content		UNI EN ISO 3251	% p/p		

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Base					30 ± 2
mixed			1 A A		34 ± 2
Viscosity (cup DIN 4)	MS 013	etac	seconds	23°C	90-100 **
		USTAN/N	1	II STOA	ot/n

VI. APPLICATION DATA

Finish: flat, angle 60° (ISO 2813).
Color: Clear
Suggested DFT: 35 ÷ 45 μm.
Theoretical consumption: 90 ÷ 120 g/m² mixed product.
Practical spreading rate: roughly 30% lower than the theoretical by airless application **

VII. APPLICATION METHOD

Equipment: airmix spray or electrostatic airless by airbrush. Thinning: up to 5% potable water. Drying time:



Touch dry approx. 1h at 20°C and 50% RH

Hard dry approx. 6-10 h at 20°C and 50% RH

Fully cured approx. 24 h at 20 °C and 50% RH



The drying times vary with the thickness, the thinning ratio and the weather conditions. The product achieves the max hardness after 4 weeks. **Number of coats:** 1 or 2 coats as described above.

Application conditions: application suggested between 15°C and 30°C, RH<50% and good ventilation.

Pot life: approx. 3 h at 23°C; do not use the product after 3 h from the mixing. **Mixing ratio:** 100:10 by weight with curing agent "W" "MB" code 730070

VIII. AVAILABLE COLORS

Clear



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IX. STORAGE INDICATIONS

Shelf life: 12 months, provided the cans are kept sealed and undamaged, into a cool and dry place with temperature between 5 and 35°C. Susceptible to frost damage.

X. AVAILABLE PACKING

Standard packing 5 and 25 kg. For different needs, please contact us

XI. SAFETY PRECAUTIONS

For professional use only. For health and safety information, please refer to the relevant Material Safety Data Sheet.

XII.NOTES, WARNINGS AND OTHER INFORMATION

Given the large number of factors that influence the painting process and our inability to control the use of the product itself, we can accept no responsibility for the final result.

* parameters subject to testing for each batch.

** indicative value, as it is dependent on numerous factors unrelated to the product, such as the size of the object, the conditions of the surface, the type and conditions of application.

NB: the product conforms to Law Decree 27 March 2006 n.161; It belongs to category j) High performance two component paints

VOC value lower than legal limit VOC legal limits are 140 g/l from 01/01/2010.

This Product Data Sheet has been written according to UNICHIM 1633 method

The information in this data sheet about the use of our products are based on our present scientific knowledge and practice. Zetagi accepts no commitment and / or responsibility on the final result of the work with our products. It is the customer's responsibility to verify the suitability of our products for the intended use. All the products and the advice given are subject to our general conditions of sale which we recommend you to request and read carefully. This data sheet replaces and annuls the previous ones: it is the user's responsibility to ensure that this sheet is updated prior to using the product. This data sheet is a translation; the Italian text of this document shall prevail over any translation thereof. ©20



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