

Data sheet

Drycoat Mortar A+B

Drycoat two-component mortar PMMA / Base Resin

PRODUCT

Two-component mortar based on polymethylmethacrylate (PMMA) resin.
Is composed by:
> Drycoat Mortar A - Base resin
> Drycoat Mortar B - Powder

USAGES

It is used for fast-hardening slab coatings, resistant to strong stresses, and external repair work for thicknesses of 5-50 mm.
Quick repair mortar for damaged areas of concrete or concrete slabs, steps, edges, etc. with layer thickness > 5 mm.
Reactive mortar for making concave joints or sloping slabs.
Resin coating for concrete substrates subjected to high stresses such as loading platforms with layer thickness > 5 mm.

ADVANTAGES

- > Reprofilable
- > Fast hardening
- > Resistant to atmospheric agents
- > Wear resistant
- > Resistant to UV rays
- > Resistant to vehicle traffic
- > Resistant to strong mechanical stress.

TECHNICAL FEATURES

Flexural strength 27 N / mm².
Compressive strength 67 N / mm².



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PREPARATION OF THE SUBSTRATE

Substrates that have been pre-treated and with primer applied must be solid, dry, free of components that are flaking off or that reduce adhesion. It must be ensured that there is no penetration of moisture on the back side of the cladding due to the architectural conditions. Adherence to the substrate must be verified in the individual case in the building.

During execution, the surface temperature must be at least +3 ° C above the dew point. At lower temperatures, a moisture film with non-stick action may form on the surface to be processed.

MIXING

Shortly before processing, the resin base and the powder are mixed thoroughly and slowly with a stirrer. The prepared mixture is immediately poured onto the pre-treated surface, with primer applied, and distributed with a trowel or trowel. During the working time, level the mortar and remove excess residues. Minimum layer thickness 5 mm.

The base resin: powder mixing ratio should be 2.2: 20 parts by weight.

PLACEMENT

Drycoat Mortar 240 can be processed at ambient and substrate temperatures of at least 0 ° C up to max. +35 ° C. In closed environments, mandatory ventilation must be provided with at least 7 air changes per hour.

Workability limit time (at +20 ° C): about 15 min.

Drying time (at +20 ° C):

- > Resistant to rain after approx. 30 min.
- > Passable after about 45 min.
- > Resistant to stress after about 1 hour.

CONSUMPTION

Approx. 2.2 kg / m² per mm of layer thickness on a smooth flat substrate. Consumption with a minimum layer thickness of 5 mm: approx. 11 kg / m².

STORAGE

Keep in a cool, dry, frost-free place. The unopened and unmixed product lasts about 6 months. Direct solar radiation on packages should be avoided, even on site.

Safety data sheet



Drycoat Mortar A

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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

1.1 PRODUCT IDENTIFIER	Commercial Product Name:	Drycoat Mortar A Base Resin
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Relevant identified uses	Mortar resin
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Company:	Drytech International SA via Industrie 12 CH-6930 Bedano TI SVIZZERA
	T	+41 (0)91 960 23 49
	@	info@drytechinternational.com
1.4 EMERGENCY TELEPHONE NUMBER	Switzerland: 145 From abroad: +41 44 251 51 51	

2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to Regulation (EC) No. 1272/2008	Flam. Liq. 2; H225 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317 STOT SE 3; H335
2.2. LABEL ELEMENTS	Hazard pictogram	 
		GHS02 GHS07
	Signal word	Danger
	Hazardous component (s) to report on the label:	Xilene
	H-statement(s):	H225: Highly flammable liquids and vapors. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation

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P-statement(s):

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233: Keep the container tightly closed.

P280: Wear protective gloves / protective clothing / eye protection / face protection.

P312: If you feel unwell, contact a POISON CENTER or doctor.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing before wearing it again.

P337+P313: If eye irritation persists, consult a doctor.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 MIXTURES

Chemical characterization

Mixture with reactive acrylates

DANGEROUS INGREDIENTS

Ingredient			Classification (EC) 1272/2008	Concentration
METHYL METHACRYLATE	No. CAS No. EG No. Indice No. REACH	80-62-6 201-297-1 607-035-00-6 01-2119452498-28-XXXX	Flam. Liq. 2; H225 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317	70.0 - 75.0 Peso
2-ETHYLHEXYL ACRYLATE	No. CAS No. EG No. Indice No. REACH	103-11-7 203-080-7 607-107-00-7 01-2119453158-37-XXXX	Skin Irrit. 2; H315 Skin Sens. 1; H317 STOT SE 3; H335 Aquatic Chronic 3; H412	10.0 - 15.0 % by weight
ALIPHATIC URETHANACRYLATE			Skin Irrit. 2; H315 Eye Irrit. 2; H319	5.0 - 10.0 % by weight
1,1'-(P- TOLYLIMINO) DIPROPAN-2-OLO	No. CAS No. EG No. REACH	38668-48-3 254-075-1 01-2119980937-17-XXXX	Acute Tox. 2; H300 Eye Irrit. 2; H319 Aquatic Chronic 3; H412	1.0 - 5.0 % by weight

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ETIL-METACRILATO	No. CAS No. EG No. INDICE	97-63-2 202-597-5 607-071-00-2	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H335 Skin Irrit. 2; H315 Skin Sens. 1; H317 Aquatic Chronic 3; H412	0.1 - 1.0 % by weight
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4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	<i>General advice:</i>	Move out of dangerous area. Take off all contaminated clothing immediately. Do not leave the victim unattended. Show this safety data sheet to the doctor in attendance.
	<i>Inhalation:</i>	Move to fresh air. If symptoms persist, call a physician. Show this safety data sheet to the doctor in attendance.
	<i>Skin:</i>	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. If skin irritation appears, seek medical advice / control.
	<i>Eyes</i>	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	<i>Ingestion:</i>	Rinse your mouth. DO NOT induce vomiting. Call a doctor immediately.
4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED	<i>Immediate medical attention</i>	Treat symptomatically.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA	<i>Suitable extinguishing media</i>	Carbon dioxide (CO ₂), foam, Water spray, Dry powder
	<i>Extinguishing media which must not be used for safety reasons:</i>	High volume water jet.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	<i>Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases</i>	They can form explosive mixtures with air. Ensure sufficient air exchange and / or suction in the workplace.

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The flame produces dense black smoke containing hazardous combustion products (see section 10). Inhalation of decomposition products can cause damage to health.

5.3 ADVICE FOR FIREFIGHTERS

Special protective equipment for fire-fighting:

In the event of fire, wear self-contained breathing apparatus

Additional information on firefighting

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Personal precautions:

Provide adequate ventilation. The vapors are heavier than air and spread across the Soil. Use personal protective equipment.

6.2 ENVIRONMENTAL PRECAUTIONS

Environmental precautions:

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system. Avoid subsoil penetration.

6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Methods for cleaning up:

Dry with inert materials (eg sand, silica gel, acid binder, universal binder, sawdust). Thoroughly clean the contaminated surface.

6.5 ADDITIONAL INFORMATION

Treat recovered material as described in the section "Disposal considerations".

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Advice on safe handling:

Processing can cause the exhalation of flammable volatile products. Wear protective masks in case of insufficient ventilation. Keep the product and empty containers away from heat sources and sources of ignition. Open and handle the container with care. Avoid contact with skin and eyes.

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Precautions: Do not eat, drink and smoke while working. See Section 8 for personal protective equipment. Observe the directions on the label.

Advice on protection against fire and explosion: Take precautionary measures against static discharges. Vapours may form explosive mixture with air. Use water spray to cool unopened containers.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Storage space and container requirements

Storage must be carried out in agreement with BetrSichV (Germany). Keep in a cool, well-ventilated place. Keep in properly labeled containers. Close open containers carefully and store them upright to avoid spillage.

* TRGS 510

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

METHYL METHACRYLATE	Italia		
	Long-term exposure value / mg/m ³	Short-term exposure value / ppm	Source
	50	1000	75

Source: 75 - Definition of a first list of indicative occupational exposure limit values for chemical agents 2009

Europe

Long-term exposure value / mg/m ³	Short-term exposure value / ppm	Date	Source
50	100	2009/161	24

Source: 24 - DIRECTIVE 2009/161 / EU

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
210 mg/m ³	Workers	Inhalation	Long-term local effects	100
210 mg/m ³	Workers	Inhalation	Long-term systemic effects	100
1,5 mg/cm ²	Workers	Skin	Long-term local effects	100
13,67 mg/kg	Workers	Skin	Long-term systemic effects	100

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105 mg/m ³	Consumers	Inhalation	Long-term local effects	100
74,3 mg/m ³	Consumers	Inhalation	Long-term systemic effects	100
1,5 mg/cm ²	Consumers	Skin	Long-term local effects	100
8,2 mg/kg	Consumers	Skin	Long-term systemic effects	100
1,5 mg/cm ²	Consumers	Skin	Long-term local effects	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
0,94 mg/l	Freshwater	100
0,094 mg/l	Marine water	100
5,74 mg/kg	Sediment	100
1,47 mg/kg	Soil	100

Source: 100 - Company data

2-ETHYLESYL ACRYLATE

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
37,5 mg/m ³	Workers	Inhalation	Long-term local effects	100
0,242 mg/m ²	Workers	Skin	Long-term local effects	100
0,242 mg/m ²	Workers	Skin	Local short-term effects	100
4,5 mg/m ³	Consumers	Inhalation	Long-term local effects	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
0,002752 mg/l	Freshwater	100
0,000272 mg/l	Marine water	100
2,3 mg/l	Waste water treatment plant	100
0,126 mg/kg	Freshwater sediment	100
0,126 mg/kg	Marine sediment	100
1,0 mg/kg	Soil	100
0,0023 mg/kg	Intermittent releases	100

Source: 100 - Company data

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1,1'-(P-TOLYLIMINO)
DIPROPAN-2-OLO

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
2 mg/m ³	Workers	Inhalation	Long term effects	100
0,6 mg/kg	Workers	skin exposure	Long term effects	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
199,5	Waste water treatment	100
0,0072 mg/kg	Marine water	100
0,017 mg/l	Freshwater	100

Source: 100 - Company data

8.2 EXPOSURE CONTROLS

Respiratory protection

Vapour during processing may be irritating to the respiratory tract and to the eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Remarks:

Recommended Filter type: A1, A2 (in case of higher concentration).

Use the recommended respiratory protection if the occupational exposure limit is exceeded and / or if the product (dust) is released.

Hand protection

Protective gloves according to EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Please also take into consideration the specific local conditions in which the product is used, such as the danger of cuts, abrasion and the duration of contact.

Suitable material:

Nitriles

Unsuitable material:

Woven fabric, Leather gloves.

Material thickness:

0.38 mm

Break through time:

< 25 min

Eye protection:

Tightly fitting safety goggles

Skin and body protection:

Wear suitable protective equipment. Long sleeved clothing

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<i>General protective and hygiene measures</i>	Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feedingstuffs. Wash hands before breaks and at the end of workday. Use protective skin cream before handling the product. Avoid contact with the skin and the eyes.
<i>Engineering measures</i>	Ensure adequate ventilation, especially in closed areas. When concentrations above the exposure limits occur, the use of adequate respiratory protection systems is mandatory.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

<i>*Physical state</i>	Liquid
<i>Form</i>	Liquid
<i>Color</i>	Colorless, clear
<i>Odour</i>	tipicamente per metilmetacrilato
<i>Boiling point [°C]</i>	circa 100 °C
<i>Flash point [°C]</i>	10 °C
<i>Evaporation rate [kg/(s*m²)]</i>	Not determined
<i>Vapour pressure [kPa]</i>	47 hPa
<i>Vapour density</i>	Not determined
<i>Density [g/cm³]</i>	circa 0,96 g/cm ³
<i>Water solubility [g/l]</i>	
<i>Remarks:</i>	Insoluble
<i>Distribution coefficient (n-octanol / water) (log P O/W):</i>	Not determined
<i>Explosive properties:</i>	Not relevant
<i>Oxidising properties:</i>	Not relevant

9.2 OTHER INFORMATION

<i>Flow time [s]:</i>	circa 9 - 11 sec
<i>Temperature:</i>	20 °C
<i>Measuring method:</i>	tazza DIN 4 mm

10. STABILITY AND REACTIVITY

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10.3 POSSIBILITY OF HAZARDOUS REACTIONS

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerize with heat evolution. Risk of receptacle bursting.

10.4 CONDITIONS TO AVOID

Extremes of temperature and direct sunlight.

10.5 INCOMPATIBLE MATERIALS

Reacts violently with peroxides. Reducing agents, Strong bases, Amines, Oxidizing agents

11. TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL INFORMATION

Hazardous ingredients

METHYL METHACRYLATE	Oral toxicity [mg/kg]	Test criterion	Test species	Kind of measurement	Source
	> 5000 mg/kg	DL50	Rat	OECD TG 401	100

Source: 100 - Company data

Dermal toxicity [mg/kg]	Test criterion	Test species	Source
> 5000	DL50	Rabbit	100

Source: 100 - Company data

LC50 Inhalation 4h for vapors [mg/l]	Test criterion	Test species	Source
29,8 mg/l	DL50	Rat	100

Source: 100 - Company data

<i>Irritant effect on skin</i>	Irritant
<i>Test species</i>	Rabbit
<i>Irritant effect on eyes</i>	Irritant
<i>Test species su</i>	Rabbit
<i>Awareness raising</i>	Skin sensitizing
<i>Test species</i>	Mouse
<i>Carcinogenic effects</i>	Not a carcinogen
<i>Test species</i>	Rat, Mouse
<i>Mutagenicity</i>	Not mutagenic
<i>Reproduction toxicity</i>	Not toxic to reproduction

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<i>Specific target organ toxicity (single exposure) [mg/kg]</i>	<i>Source</i>
Causes respiratory tract irritation.	100

Source: 100 - Company data

<i>Specific target organ toxicity (repeated exposure) [mg/kg]</i>	<i>Source</i>
No known effect	100

Source: 100 - Company data

<i>2-ETHYLESYL ACRYLATE</i>	<i>Oral toxicity [mg/kg]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
	4435	DL50	Rat	100

Source: 100 - Company data

<i>Dermal toxicity [mg/kg]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
7522	DL50	Rabbit	100

Source: 100 - Company data

<i>Tossicità [mg/l]</i>	<i>Duration of exposure</i>	<i>Test species</i>	<i>Source</i>
1,19 mg/l	8 h	Rat	100

<i>Irritant effect on skin</i>	Skin irritation
<i>Test species</i>	Rabbit
<i>Exposure duration</i>	4 h
<i>Irritant effect on eyes</i>	Slightly Irritating
<i>Measuring method</i>	OECD TG 405
<i>Test species</i>	Rabbit
<i>Awareness raising</i>	Skin sensitizing
<i>Carcinogenic effects</i>	No known effect
<i>Mutagenicity</i>	No known effect
<i>Reproduction toxicity</i>	No known effect

<i>Specific target organ toxicity (single exposure) [mg/kg]</i>	<i>Source</i>
Causes respiratory tract irritation	100

Source: 100 - Company data

<i>Specific target organ toxicity (repeated exposure) [mg/kg]</i>	<i>Source</i>
No known effect	100

Source: 100 - Company data

<i>1,1`-(P-TOLYLIMINO) DIPROPAN-2-OLO</i>	<i>Oral toxicity [mg/kg]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
	45	DL50	Rat	100

Source: 100 - Company data

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<i>Dermal toxicity [mg/kg]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
2001	DL50	Rat	100

Source: 100 - Company data

<i>Irritant effect on skin</i>	No skin irritation
<i>Irritant effect on eyes</i>	Irritant
<i>Awareness raising</i>	No sensitization reactions were observed.
<i>Mutagenicity</i>	Negative

11.2 ADDITIONAL INFORMATION

<i>Experience in practice</i>	Symptoms of overexposure can be headache, dizziness, fatigue, nausea and vomiting. Irritant for eyes, respiratory tract and skin. Irritating to mucous membranes.
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12. ECOLOGICAL INFORMATION

12.1 TOXICITY

Hazardous ingredients

<i>METHYL METHACRYLATE</i>	<i>Toxicity to fish [mg/l]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Exposure duration</i>	<i>Measuring method</i>	<i>Source</i>
	191 mg/l	DL50	Oncorhynchus mykiss (Rainbow trout)	96 h	OECD TG 203	100

Source: 100 - Company data

<i>Toxicity for Daphnia [mg/l]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Duration of exposure</i>	<i>Kind of measurement</i>	<i>Source</i>
69 mg/l	EC 50	Daphnia magna (Water flea)	48 h	OECD TG 202	100

Source: 100 - Company data

<i>Toxicity to algae [mg/l]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Duration of exposure</i>	<i>Kind of measurement</i>	<i>Source</i>
>110 mg/l	EC 50	Selenastrum capricornutum (green algae)	72 h	OECD TG 201	100

Source: 100 - Company data

<i>NOEC (Fish) [mg/l]</i>	<i>Test species</i>	<i>Measuring method</i>	<i>Source</i>
9.4	Brachydanio rerio (Zebra fish)	OECD Test Guideline 210	100

Source: 100 - Company data

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NOEC (Daphnia) [mg/l]	Test species	Measuring method	Source
37	Daphnia magna (Water flea)	OECD TG 202	100

Source: 2 - SimChem

Biodegradability	Readily biodegradable.
Method of analysis	OECD 301C/ ISO 9408/ EEC 92/69/V, C.4-F
Bioaccumulation	Does not bioaccumulate.
Mobility	Compartimento Soil non pertinente

2-ETHYLESYL ACRYLATE	Toxicity to fish [mg/l]	Test criterion	Essay on the species	Duration of exposure	Kind of measurement	Source
	1.81	LC50	Oncorhynchus mykiss (Rainbow trout)	96 h	OECD TG 203	Source

Source: 100 - Company data

Toxicity for Daphnia	Test criterion	Essay on the species	Duration of exposure	Kind of measurement	Source
1.3	EC 50	Daphnia magna (Water flea)	48 h	OECD TG 202	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Duration of exposure	Kind of measurement	Source
1.71	CE50r	Desmodesmus subspicatus	72 h	OECD TG 201	100

Source: 100 - Company data

NOEC (Alge) [mg/l]	Test species	Kind of measurement	Source
0,45	Desmodesmus subspicatus	OECD TG 201	100

Source: 100 - Company data

Biodegradability	Readily biodegradable.
Bioaccumulation	Bioaccumulation slight, log Pow 4,64

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1,1'-(P-TOLYLIMINO) DIPROPAN-2-OLO	Toxicity to fish[mg/l]	Test criterion	Test species	Exposure duration	Source
	17	LC50	Brachydanio rerio (Zebra fish)	96 h	100

Source: 100 - Company data

Toxicity to Daphnia [mg/l]	Test criterion	Test species	Exposure duration	Source
28,8	EC 50	Daphnia magna (Water flea)	18 h	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Source
245	EC 50	Desmodesmus subspicatus	27 h	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Source
1.87	IC 50	100

Source: 100 - Company data

Biodegradability	Hardly biodegradable
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Bioaccumulation	No data available
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12.5. RESULTS OF PBT AND vPvB ASSESSMENT

This preparation does not contain substances considered to be persistent, bioaccumulating or toxic (PBT).

12.6. OTHER EFFECTS ADVERSE

We have no quantitative data concerning the ecological effects of this product.

13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS

Disposal considerations:

According to the European waste catalog, waste codes are not specific to the product, but specific to the placement. The waste codes indicated below are only suggestions:

Waste Code:

08 04 10: Waste adhesives and sealants other than those mentioned in 08 04 09 The waste code number applies only to liquid products.

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08 01 12: Waste paints and varnishes other than those mentioned in 08 01 11 The waste code number is valid only for liquid products.




17 02 03: Plastic The waste code number is only in effect for hardened product.

08 04 09* Waste adhesives and sealants, containing organic solvents or other dangerous substances.

Uncleaned empty packaging: --

14. TRANSPORT INFORMATION

Land transport ADR/RID Marine transport IMDG Air transport ICAO/IATA

14.1 UN-NO	1263	1263	1263
14.3 TRANSPORT HAZARD CLASS(ES)	3	3	3
14.4 PACKAGING GROUP	III	III	III
14.2 DESCRIPTION OF THE GOODS	Paints	Paints	Paints
14.2 UN PROPER SHIPPING NAME		Paints	Paints
Remarks	(Including paints, lacquers, enamels, colors, shellac, varnish, polish, liquid filler and lacquer based liquids)	(Including paints, lacquers, enamels, colors, shellac solutions, varnishes, waxes, Liquid filler and liquid lacquer base)	(Including paints, lacquers, enamels, colors, shellacs, varnishes, polishes, liquid fillers and liquid lacquer base)
Labels	3 	3 	3 - Flammable liquid 
Rischio No.	33		
Category	2		
Classification Code	F1		
SP 640	640D		
Tunnel restriction code	D/E		
EMS No		F-D; S-U	
Stowage category		B	
	HS-Code	32149000	

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14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE	Not relevant
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15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGU- LATIONS/LEGISLATION SPECIFIC FOR THE SUB- STANCE OR MIXTURE	<i>Additional regulations:</i>	Furthermore, national laws must be considered!
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16. OTHER INFORMATION

<i>Relevant H-phrases</i>	H225: Highly flammable liquids and vapors. H300: Fatal if ingested. H315: Causes skin irritation.. H317: It can cause a reaction allergic skin. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H412: Harmful to aquatic organisms with long lasting effects.
<i>Text of the hazard classes</i>	Flam. Liq.: Flammable liquid STOT SE: Specific target organ toxicity - single exposure Skin Irrit.: Skin irritation Skin Sens.: Skin awareness raising Aquatic Chronic: Dangerous for the aquatic environment Eye Irrit.: Eye irritation Acute Tox.: Acute toxicity
<i>Department issuing safety data sheet</i>	Environmental Department
<i>Further information</i>	Full text of H-phrases referred to in Chapters 2 and 3

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.

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Drycoat two-component mortar PMMA / Base Resin

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product identifier	Commercial Product Name:	Drycoat Mortar B
1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST	Relevant identified uses	Fluid mortar
1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET	Company:	Drytech International SA via Industrie 12 CH-6930 Bedano TI SVIZZERA
	T	+41 (0)91 960 23 49
	@	info@drytechinternational.com
1.4 EMERGENCY TELEPHONE NUMBER	Switzerland: 145 From abroad: +41 44 251 51 51	

2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to Regulation (EC) No. 1272/2008	The product is not classified as dangerous pursuant to (EC) regulation no. 1272/2008.
2.2. Label elements	Hazard pictogram	Pursuant to regulation (EC) No. 1272/2008 [CLP], the product does not need to be labeled.
	Additional information	EUH208: Contains dicyclohexyl phthalate, benzoyl peroxide. It can cause an allergic reaction. EUH210: Safety data sheet available on request

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.2 Mixtures	Chemical characterization	Miscuglio di sabbia quarzosa
DANGEROUS INGREDIENTS		
Ingredient	Classificazione 1272/2008/EG	Concentration

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DIBENZOYL PEROXIDE	No. CAS No. CE. No. INDICE. No. REACH:	94-36-0 202-327-6 617-008-00-0 01-2119511472-50-XXXX	Org. Perox. B; H241 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	0.1 - 1.0 % by weight
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DICYCLOHEXYL PHTHALATE	No. CAS. No. CE. No. REACH:	84-61-7 201-545-9 01-2119978223-34-XXXX	Skin Sens. 1; H317 Repr. 2; H361f Aquatic Chronic 3; H412	0.1 - 1.0 % by weight
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4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES	General advice:	Remove from the danger area. Immediately remove all contaminated clothing. Do not abandon the victim without assistance. Show this safety data sheet to the attending physician.
	Inhalation:	If you feel unwell, consult your doctor (if possible, show him the label).
	Skin:	Wash with plenty of soap and water. If skin irritation appears, seek medical advice / control.
	Eyes	Wash immediately with plenty of water and consult a doctor.
	Ingestion:	Rinse mouth. Do NOT induce vomiting. Call a physician immediately.

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA	Suitable extinguishing media	Carbon dioxide (CO ₂), dry powder, water spray, foam.
	Extinguishing media which must not be used for safety reasons:	Jet full of water.
5.3 ADVICE FOR FIREFIGHTERS	Special protective equipment for firefighting:	In the event of fire, wear self-contained breathing apparatus
	Additional information on firefighting	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Do not allow run-off from fire fighting to enter drains or water courses.

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6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Personal precautions:	Avoid the formation of dust. Use personal protective equipment.
6.2 ENVIRONMENTAL PRECAUTIONS	Environmental precautions:	Do not discharge the flushing stream into surface water or sanitary sewage systems.
6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP	Methods for cleaning up:	Avoid the formation of dust. Use mechanical handling equipment. Thoroughly clean the contaminated surface. Eliminate in compliance with current legislation.
6.5 ADDITIONAL INFORMATION		Handle the recovered material as described in the "considerations on elimination" section.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING	Advice on safe handling:	Avoid the formation of dust. Wear protective clothing. Open and handle the container with care. Avoid contact with skin and eyes.
	Precautions:	Do not eat, drink and smoke while working. See Section 8 for personal protective equipment. Observe the directions on the label.
7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES	Storage space and container requirements	Store in original containers. Keep container tightly closed in a dry and well-ventilated place.
	Storage indications	Keep in a dry place.
	TRGS 510	13

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8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

DIBENZOYL PEROXIDE

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
11,75 mg/m ³	Workers	Inhalation	Long term effects	100
6,6 mg/kg	Workers	Skin exposure	Long term effects	100
2,9 mg/m ³	Consumers	Inhalation	Long term effects	100
3,3 mg/kg	Consumers	Skin exposure	Long term effects	100
1,65 mg/kg	Consumers	Oral	Long term effects	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
0,000602 mg/l	Freshwater	100
0,338 mg/kg	Freshwater sediment	100
0,0000602 mg/l	Sea water	100
0,0338 mg/kg	Marine sediment	100
0,35 mg/l	Pre-treatment of waste water	100
6,67 mg/kg	Oral	100

Source: 100 - Company data

DICICLOESILFTALATO

DNEL

Value	Target group	Exposure via	Exposure frequency	Source
35,2 mg/m ³	Workers	Inhalation	Long term systemic effects	100
0,5 mg/kg ²	Workers	Skin	Long term systemic effects	100

Source: 100 - Company data

PNEC

Value	Exposure via	Source
0,00362 mg/l	Freshwater	100
1,06 mg/kg	Sediment Freshwater	100
0,000362 mg/l	Sea water	100
01,06 mg/kg	Marine sediment	100
10 mg/l	STP	100
0,21	Soil	100

Source: 100 - Company data

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8.2 Exposure controls	<i>Respiratory protection</i>	Use the recommended respiratory protection if the occupational exposure limit is exceeded and / or if the product (dust) is released. Maschera naso-bocca munita di filtro microporoso P2 (Norma Europea 143).
	<i>Hand protection</i>	Protective gloves according to EN 374. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Please also take into consideration the specific local conditions in which the product is used, such as the danger of cuts, abrasion and the duration of contact.
	<i>Suitable material:</i>	Nitriles
	<i>Unsuitable material:</i>	Fabric, leather gloves
	<i>Eye protection:</i>	Tightly fitting safety goggles
	<i>Skin and body protection:</i>	Wear suitable protective equipment. Long sleeved clothing
	<i>General protective and hygiene measures</i>	Do not breathe the dust. Avoid contact with skin and eyes. Wash hands before breaks and at the end of the working day. Use a protection cream before handling the product. General informations. Fraction of alveolar powder 1.25 mg / m ³ respirable dust fraction 10 mg / m ³ 2 (II)
	<i>Engineering measures</i>	Ensure adequate ventilation, especially in closed areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES	<i>Physical state</i>	solid
	<i>Form</i>	solid
	<i>Color</i>	Grigo
	<i>Odour</i>	Inodore
	<i>Odour threshold</i>	Product specifications
	<i>Evaporation rate [kg/(s*m²)]</i>	Not applicable
	<i>Explosion limits [Vol-%]</i>	Not determined
	<i>Vapour pressure [kPa]</i>	Not applicable
	<i>Vapour density</i>	Not applicable

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Density [g/cm ³]	2,0 g/cm ³
Water solubility [g/l]	Insoluble
Distribution coefficient (n-octanol / water) (log P O/W)	420
Density [g/cm ³]	>1
Density relativa	0,86
Dynamic viscosity [kg/(m*s)]	No data available
Oxidising properties.	Not determined

10. STABILITY AND REACTIVITY

10.4 CONDITIONS TO AVOID None under normal processing.

11. TOXICOLOGICAL INFORMATION

11.1 TOXICOLOGICAL INFORMATION Hazardous ingredients

DIBENZOYL PEROXIDE	Oral toxicity [mg/kg]	Test criterion	Test species	Source
	> 5000 mg/kg	DL50	Rat	100

Source: 100 - Company data

Inhalative toxicity [mg/l]	Test criterion	Durata somministrazione	Test species	Notano	Source
24.3 mg/l	LC50	4 Ore	Rat	OECD TG 403	2

Source: 2 - SimChem

LC50 Inhalation 4h for dusts and mists [mg/l]	Test criterion	Test species	Source
>24,3	LC0	Rat	100

Source: 100 - Company data

Irritant effect on skin	No skin irritation
Measuring method	OECD TG 404
Test species	Rabbit
Irritant effect on eyes	Irritating to eyes, reversible within 21 days
Measuring method	OECD TG 405
Test species	Rabbit

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<i>Awareness raising</i>	Skin sensitizing
<i>Measuring method</i>	OECD TG 429
<i>Test species</i>	Mouse
<i>Carcinogenic effects</i>	It showed no carcinogenic effects in animal experiments.
<i>Mutagenicity</i>	It showed no mutagenic effects in animal experiments.
<i>Reproduction toxicity</i>	Not toxic to reproduction

<i>Specific target organ toxicity (single exposure) [mg/kg]</i>	<i>Source</i>
No data available	2

Source: 2 - SimChem

<i>Specific target organ toxicity (repeated exposure) [mg/kg]</i>	<i>Source</i>
Animal testing did not reveal any harmful effects	2

Source: 2 - SimChem

<i>DICYCLESYL-PHTHALATE</i>	<i>Oral toxicity [mg/kg]</i>	<i>Test criterion</i>	<i>Test species</i>	<i>Source</i>
	>2001	DL50	Rat	100

Source: 100 - Company data

<i>Irritant effect on skin</i>	<i>No skin irritation</i>
<i>Measuring method</i>	<i>OECD 439 Skin irritation</i>
<i>Irritant effect on eyes</i>	<i>No eye irritation</i>
<i>Measuring method</i>	<i>OECD 437 Irritating to eyes</i>
<i>Test species</i>	<i>Rabbit</i>
<i>Awareness raising</i>	<i>Skin sensitizing</i>
<i>Mutagenicity</i>	<i>Negative</i>
<i>Reproduction toxicity</i>	<i>Experiments conducted on some animals may indicate that the technically active component can cause a toxic action at the embryonic level.</i>

<i>Specific target organ toxicity (single exposure) [mg/kg]</i>	<i>Source</i>
No data available	100

Source: 100 - Company data

11.2 ADDITIONAL INFORMATION

*Experience in practice**May cause sensitization for Inhalation.*

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Hazardous ingredients

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DIBENZOYL PEROXIDE

Toxicity to fish [mg/l]	Test criterion	Essay on the species	Duration of exposure	Kind of measurement	Source
0,0602	LC50	Oncorhynchus mykiss (Rainbow trout)	96 h	OECD TG 203	100

Source: 100 - Company data

Toxicity for Daphnia [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Source
0,110	EC50	Daphnia magna (Water flea)	48 h	OECD TG 202	100

Source: 100 - Company data

Toxicity to algae [mg/l]	Test criterion	Test species	Exposure duration	Kind of measurement	Source
0,0711	EC50	Pseudokirchneriella subcapitata	72 h	OECD TG 201	100

Source: 100 - Company data

Biodegradability	Biodegradabile 68 %
Remarks	Inherently biodegradable
Measuring method	OECD 301D/ EEC 92/69/V, C.4-E
Durata	28 giorni

DICICLOESILFTALATO

Toxicity to fish [mg/l]	Test criterion	Saggio sulla specie	Exposure duration	Measuring method	Remarks	Source
(>2)	DL50	Ciprini-formi arancione-rosso	96 h	OECD TG 203	Massima Solubilità	100

Source: 100 - Company data

Tossicità per le alghe [mg/l]	Test criterion	Test species	Exposure duration	Measuring method	Remarks	Source
(>2)	EC50	Pseudokirchneriella subcapitata	72 h	OECD TG 201	Massima Solubilità	100

Source: 100 - Company data

NOEC (Daphnia) [mg/l]	Test species	Exposure duration	Source
0,679	Daphnia magna (Water flea)	21 days	100

Source: 100 - Company data

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NOEC (Seaweed) [mg/l]	Test species	Duration of exposure	Kind of measurement	Source
>2	Pseudokirchneriella subcapitata	72 h	OECD TG 201	100

Source: 100 - Company data

<i>Biodegradability</i>	Readily biodegradable.
<i>Bioaccumulation</i>	No data available
<i>Il risultato del rilevamento delle proprietà PBT</i>	The substance is not considered to be persistent, bioaccumulating or toxic (PBT).

12.6. OTHER EFFECTS ADVERSE

We have no quantitative data concerning the ecological effects of this product.

13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS

Disposal considerations: According to the European waste catalog, waste codes are not specific to the product, but specific to the placement. The waste codes indicated are only suggestions.

Uncleaned empty packaging: No suggestions

14. TRANSPORT INFORMATION

Land transport ADR/RID *Marine transport IMDG* *Air transport ICAO/IATA*

14.2 DESCRIPTION OF THE GOODS	Not applicable	Not applicable	Not applicable
14.2 UN PROPER SHIPPING NAME		Non dangerous good	Non dangerous good
	<i>Remarks</i>	HS-Code:	25051000

14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL AND THE IBC CODE

Not relevant

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15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE	Additional regulations:	Furthermore, national laws must be considered!
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16. OTHER INFORMATION

Relevant H-phrases

EUH208: Contains phthalate-of-cyclohexyl; BENZOYL PEROXIDE. It can cause an allergic reaction.

EUH210: Safety data sheet available on request.

H24: Risk of fire or explosion due to heating.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H361f: Suspected of damaging fertility.

H400: Very toxic to aquatic organisms.

H412: Harmful to aquatic life with long lasting effects.

Wording of the hazard classes

Org. Perox.: Organic peroxide
 Eye Irrit.: Eye irritation
 Skin Sens.: Skin awareness raising Repr.: Reproductive toxicity
 Aquatic Acute: Dangerous for the aquatic environment
 Aquatic Chronic: Dangerous for the aquatic environment

Department issuing safety data sheet

Environmental Department

Further information

Full text of the R and H phrases mentioned in Chapters 2 and 3

This information is provided in accordance with the current status of our knowledge and experience. The Safety Data Sheet describes products with a view to relevant safety requirements. This information does not constitute a warranty of properties, features or qualities.