

Data sheet

DRYflex 1 Part A

Two-component waterproofing acrylic resin

DESCRIPTION

DRYflex 1 is a non-toxic and colored aqueous solution of multifunctional acrylic monomers.

The compound gels, in a few seconds or several minutes, when it is associated with an Activator / Hardener pair at the time of use.

In the presence or absence of water, the volume of the gel increases or decreases reversibly, while maintaining impermeability.

USAGES

DRYflex 1 is used in rehabilitation or preventive waterproofing works, in association with the DRYset system as part of the Drytech White Tank System and in facilities for drinking water.

It is used in constructions that, in the presence of water, require the installation, by injection through holes or channels, of a very fluid, hydrophilic and controlled-setting product for:

- treatment of infiltrations and water leaks
- Soil treatment
- treatment of underground constructions
- treatment of groundwater constructions

PRESENTATION

DRYflex 1 consists of three products:

Part A: DRYflex 1, the resin.

Part A1: Accelerator, liquid for catalyzing in an adjustable time from 10 sec. at 30 min.

Part B: Hardener in powder, to be diluted in water.

FEATURES

PHYSICO-CHEMICAL

Density: 1,15 ± 0,05 kg/l

pH: 6,7 ± 0,2

Viscosity: 20 ± 5 cps

PREPARATION

At the time of placement, the following components must be prepared:

- Component A: mixture of DRYflex 1 Part A and DRYflex Accelerating.
- Component B: DRYflex B diluted in 20 liters of water.



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DRYflex 1 Part A

Two-component waterproofing acrylic resin

REQUIREMENTS	NORM	DESCRIPTION	DRYflex 1
<i>Basic requirements</i>	EN1504-5 Tabella 3C	U (S2) = intended use - concrete waterproofing injections. W (1) = minimum thickness of the gap 0.1 mm. (1/2/3/4) = injectable in dry, humid, wet, water-filled cracks. (5/40) = operating temperature 5-40 ° C	Compliant
<i>Water impermeability</i>	EN 14068	a 2x10 ⁵ e 7x10 ⁵ Pa	Compliant
<i>Viscosity</i>	EN ISO 3219	20-30 mPa.s	Compliant
<i>Reactivity</i>	EN ISO 9514	Gelation time between 10 sec and 45 min	Compliant
<i>Durability, expansion and expansion</i>	EN 14498	The expansion must reach a constant level, according to the EN 14498 standard - conditioning regime A	Compliant
<i>Durability, sensitivity to wet / dry cycles</i>	EN 14498	Durability, sensitivity to wet / dry cycles	Compliant
<i>Compatibility with concrete</i>	EN 12637-1	Constant level of expansion after a maximum of 28 days and change in mass ≥ 10%	Compliant
<i>Corrosion behavior</i>	EN 1504-5 Tabella 3C	Without corrosive effects	Compliant
<i>Behavior to fire</i>	BS6853 BS EN ISO 4589-2	Smoke emission: <0,005 m ² /g According to BS6853: 1999 Annex D8.3 Flammability: oxygen index > 90, According to BS EN ISO 4589-2: 1996: Part 2	Compliant
<i>Compatibility with drinking water</i>	BS 6920-1: 2000	Odor and taste of water: <1 Appearance of water: color <0.6 Turbidity: <0.09 Presence of micro-organisms: <0.4 mg / l Content of substances harmful to public health cell morphology: satisfactory color of the culture medium: normal confluence of the monolayer: 100% metal release: compliant with the standard	Compliant
<i>Toxicity</i>	VwVws 17/5/1999	Water hazard class: (WGK) 1 (1 = low risk; 5 = high risk) Mammalian Toxicity LD50: > 2000 mg / kg Aquatic Toxicity EC: > 1000 mg / kg Bio-degradability: Biodegradable according to OECD 301 B Bio-accumulability: not bio-accumulative	Compliant
<p>DRYflex resin has been subjected to conformity tests by independent institutes recognized by the EU. The full version of the certificates can be requested from Drytech International SA, +41 (0) 91 960 23 49</p>			

Two-component waterproofing acrylic resin

Basic requirements	EN1504-5 tabella 3C																																																																
<p>This resin is specifically designed for concrete waterproofing injections. Thanks to its viscosity it can be used in cracks with a thickness of 0.1, which is the minimum value required by the standard. It can be injected in all conditions required for cracks: dry, humid, wet, full of water. The resin is stable even in hot climates and can be used between 5 and 40 ° C.</p>																																																																	
Water impermeability	EN 14068																																																																
<p>The resin polymerizes without volume variation and tends to swell in the presence of water, guaranteeing the impermeability even with high water levels. The resistance to pressure is evaluated according to the EN 14068 standard which provides for subjecting to cycles of pressure of the concrete specimens crossed by a crack sealed with the product to be tested.</p>																																																																	
Viscosity	EN ISO 3219																																																																
<p>Low viscosity is an important parameter because it allows high resin penetration even in cracks or voids in low porosity concrete.</p>																																																																	
Reactivity	EN ISO 9514																																																																
<p>The possibility of modulating the setting time is another important factor. In fact, long times allow the resin to spread, while short times are necessary, in the presence of running water, to allow the product to set without being washed away.</p>																																																																	
Durability, expansion and expansion	EN 14498																																																																
<p>The ability to absorb water guarantees saturation of the voids, but it must not be excessive to avoid extrusion phenomena and must reach a constant maximum level. This characteristic is evaluated on gel specimens with dimensions 160 x 40 x 5 mm, prepared according to the EN 14498 standard. The weight and size of the freshly prepared specimens are recorded. The specimens are immersed in water and their weight and size are measured at the expected intervals. The duration of the test is 14 days and at the end the swelling of the specimen must have reached a constant maximum value.</p>																																																																	
<table border="1"> <caption>Approximate data from the water absorption graph</caption> <thead> <tr> <th>Day</th> <th>DRYflex 2 1:2 (%)</th> <th>DRYflex 2 1:1 (%)</th> <th>DRYflex 1 (%)</th> </tr> </thead> <tbody> <tr><td>0</td><td>110</td><td>110</td><td>110</td></tr> <tr><td>1</td><td>125</td><td>120</td><td>115</td></tr> <tr><td>2</td><td>140</td><td>130</td><td>125</td></tr> <tr><td>3</td><td>145</td><td>135</td><td>130</td></tr> <tr><td>4</td><td>150</td><td>138</td><td>135</td></tr> <tr><td>5</td><td>155</td><td>140</td><td>138</td></tr> <tr><td>6</td><td>160</td><td>142</td><td>140</td></tr> <tr><td>7</td><td>165</td><td>143</td><td>140</td></tr> <tr><td>8</td><td>165</td><td>144</td><td>140</td></tr> <tr><td>9</td><td>165</td><td>144</td><td>141</td></tr> <tr><td>10</td><td>165</td><td>145</td><td>141</td></tr> <tr><td>11</td><td>165</td><td>145</td><td>141</td></tr> <tr><td>12</td><td>165</td><td>145</td><td>141</td></tr> <tr><td>13</td><td>165</td><td>145</td><td>141</td></tr> <tr><td>14</td><td>165</td><td>145</td><td>141</td></tr> </tbody> </table>		Day	DRYflex 2 1:2 (%)	DRYflex 2 1:1 (%)	DRYflex 1 (%)	0	110	110	110	1	125	120	115	2	140	130	125	3	145	135	130	4	150	138	135	5	155	140	138	6	160	142	140	7	165	143	140	8	165	144	140	9	165	144	141	10	165	145	141	11	165	145	141	12	165	145	141	13	165	145	141	14	165	145	141
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DRYflex 1 Part A

Two-component waterproofing acrylic resin

Sensitivity to cycles	EN 14498																																																																																								
<p>It is one of the most critical parameters of hydrogels. These must be able to absorb water and return to the initial volume, after a drying phase, to ensure the impermeability over time. The cycles envisaged by the standard simulate the behavior that the resin will have over many years of operation.</p> <p>Some products on the market undergo permanent shrinkage in case of drying and this cannot guarantee waterproofing. This characteristic is evaluated on gel specimens with dimensions 160x40x5 mm, prepared according to the EN 14498 standard. In this case, however, the specimens are placed alternately 6 days in water and 6 days in an oven at 50 ° C. At the end of 10 cycles the specimens must maintain the initial expansion rate.</p>																																																																																									
<table border="1"> <caption>Approximate data from the expansion rate graph</caption> <thead> <tr> <th>Cycle</th> <th>DRYflex 2 1:2</th> <th>DRYflex 2 1:1</th> <th>DRYflex 1</th> </tr> </thead> <tbody> <tr><td>0</td><td>110</td><td>110</td><td>110</td></tr> <tr><td>1</td><td>60</td><td>60</td><td>60</td></tr> <tr><td>2</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>3</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>4</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>5</td><td>60</td><td>60</td><td>60</td></tr> <tr><td>6</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>7</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>8</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>9</td><td>60</td><td>60</td><td>60</td></tr> <tr><td>10</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>11</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>12</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>13</td><td>60</td><td>60</td><td>60</td></tr> <tr><td>14</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>15</td><td>100</td><td>100</td><td>100</td></tr> <tr><td>16</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>17</td><td>60</td><td>60</td><td>60</td></tr> <tr><td>18</td><td>160</td><td>150</td><td>140</td></tr> <tr><td>19</td><td>60</td><td>60</td><td>60</td></tr> <tr><td>20</td><td>160</td><td>150</td><td>140</td></tr> </tbody> </table>		Cycle	DRYflex 2 1:2	DRYflex 2 1:1	DRYflex 1	0	110	110	110	1	60	60	60	2	160	150	140	3	100	100	100	4	160	150	140	5	60	60	60	6	160	150	140	7	100	100	100	8	160	150	140	9	60	60	60	10	160	150	140	11	100	100	100	12	160	150	140	13	60	60	60	14	160	150	140	15	100	100	100	16	160	150	140	17	60	60	60	18	160	150	140	19	60	60	60	20	160	150	140
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Compatibility with concrete	EN 12637-1																																																																																								
<p>As it is intended for waterproofing concrete, the resin must be compatible with the components of the concrete. The tests are carried out according to the EN 12637-1 standard (6.2 and 7.3.1) on specimens having a thickness of 15 mm. 3 specimens are immersed in water and 3 in a potassium hydroxide solution. After 14 days of immersion, the compressive strength between the two series of specimens must not vary more than 20%.</p>																																																																																									
Corrosion behavior	EN 1504-5 tabella 3C																																																																																								
<p>In the presence of reinforcing rods or other metal elements, such as pipes, the resin must not promote corrosion phenomena. Our products have undergone the most severe tests to prove their non-corrosive behavior.</p>																																																																																									
Behavior to fire	BS6853 BS EN ISO 4589-2																																																																																								
<p>The product guarantees safety even in the event of a fire because it is not flammable and does not produce toxic gases. Other products used for waterproofing are oxidizing and above all produce highly harmful fumes.</p>																																																																																									
Compatibility with drinking water	BS 6920-1: 2000																																																																																								
<p>Our products can be used to waterproof structures in contact with drinking water because they do not release harmful substances and do not alter the smell and taste of the water.</p>																																																																																									
Toxicity	VwVws 17/5/1999																																																																																								
<p>The non-toxicity of the product, in addition to ensuring safety during installation and during use of the waterproofed structure, is also a guarantee of not causing pollution in the event of accidental dispersion of the unreacted product.</p>																																																																																									

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Store the material at a temperature of about 18-20 ° C.

The component B mixture has a short shelf life.

This results for the DRYflex B-1 of approx. 7 days in winter, and in summer a maximum of 3 days.

Supply of the material

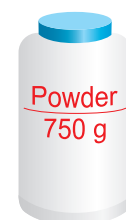
Component A



Component B Water



Accelerating

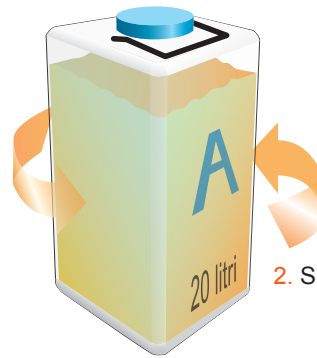


Concentrated

Two-component waterproofing acrylic resin



1. Dosages are recommended $\leq 15\%$ Accelerator in component A. (see table on the label)



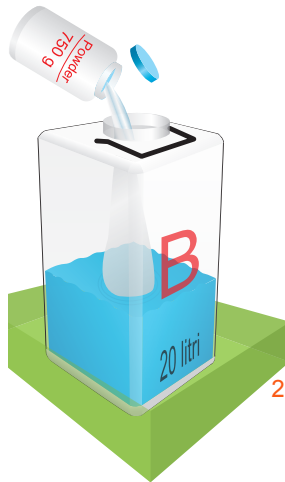
2. Shake.

Blend **A** ready for use.

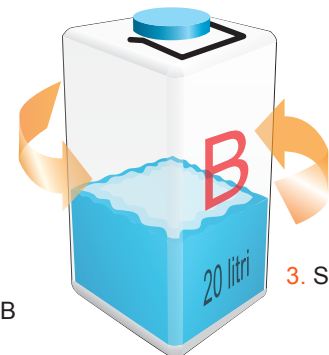
Preparation of the mixture of component B of DRYflex1



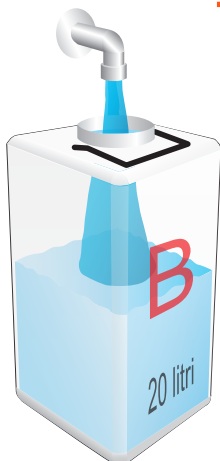
1. Fill the bin for mixing with 5 liters of water.



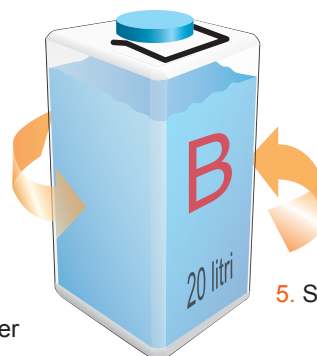
2. To add the concentrate B (750 g).



3. Shake



4. To add 15 liters of water



5. Shake.

Blend **B** ready for use.

Two-component waterproofing acrylic resin

1. GENERAL INDICATIONS

- 1.1 DRYflex must only be mixed and used by properly trained personnel.
- 1.2 The correct use of DRYflex must be checked regularly by specialists with the necessary experience. This check can be performed directly by Drytech, or by specialized technicians within the same company.
- 1.3 DRYflex chemicals must be stored on site safely and away from access by unauthorized persons.
- 1.4 For general safety, the legal provisions, respectively the requirements of professional associations, concerning the subject apply.

2. PERSONAL PROTECTION - WORK SAFETY - HYGIENE

- 2.1 For the preparation of mixtures and the use of DRYflex chemicals it is essential to wear suitable work clothes. Clothing must also include protective gloves and goggles.
- 2.2 It is necessary to have a basin with water on hand to be able to rinse accidental splashes in the eyes.
- 2.3 The free skin areas should be covered during the preparation and use of DRYflex products.
- 2.4 Hands and forearms should be treated with skin protection cream, before starting work with DRYflex products. This treatment is to be repeated every 3-4 hours, or at the latest immediately after washing the hands.
- 2.5 The site must be provided with potable water and soap for cleaning hands. It is essential to wash your hands before each work break.
- 2.6 Do not go directly home dressed in work clothes, change on the construction site or in the company's locker room.
- 2.7 Groceries, cigarettes and other consumables should be stored and consumed outside the work area.
- 2.8 Each worker should carry out a thorough personal care at the end of the interventions performed.

3. CLEANING IN THE WORKPLACE

- 3.1 The place for the installation of the machines, the deposits for equipment and chemical products, as well as other objects or construction parts in the vicinity of the interventions, must be protected with plastic sheets, if necessary.
- 3.2 The instructions (manual for the injection machine) for cleaning and maintenance of the machines and equipment must be strictly observed.
- 3.3 When work must be carried out in rooms without natural ventilation, it is essential to take the necessary precautions for sufficient ventilation of the rooms.

Two-component waterproofing acrylic resin

4. INTERVENTIONS IN CASE OF LOSS OR SPILL OF DRYFLEX

- 4.1 Small quantities of individual components or components mixed, spilled or spilled, are to be bonded with sawdust or other absorbent material. The cured Dryflex must be removed mechanically and can be disposed of like normal household waste.
- 4.2 Component B must always be added to the spilled or spilled material of component A, mix everything and allow to cure. Then remove mechanically and dispose of together with household waste.
The leaked or spilled component B is to be collected in containers and rinsed with water the residues.
- 4.3 The leakage of single components of DRYflex and the subsequent infiltration into the ground or groundwater is to be avoided.
- 4.4 Contact with occasional accidental splashes of DRYflex is unavoidable. It is therefore necessary to keep in mind that:
- stained work clothes must be removed and skin parts must be thoroughly washed.
 - sprays that hit the eyes are to be washed immediately with plenty of running water and with the special rinsing basin. See an ophthalmologist immediately as a precaution.

Safety data sheet

DRYflex 1 Part A

Two-component waterproofing acrylic resin

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

1.1 PRODUCT IDENTIFIER	Commercial Product Name:	Dryflex 1 Part A
	Product type:	Blend
1.2 RELEVANT USES IDENTIFIED OF THE SUBSTANCE OR MIXTURE AND USES NOT RECOMMENDED	Identified uses:	Monomer for polymerization.
	Uses advised against:	Tutti gli usi non monomerici e tutti gli usi risultanti in aerosol.
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	

2. HAZARDS IDENTIFICATION

2.1 SUBSTANCE OR MIXTURE CLASSIFICATION	Classification according to the directive CE 1272/2008 (CLP):	The product is not considered dangerous according to the EC directive 1272/2008 (CLP)
2.2 LABEL ELEMENTS	Hazard pictograms:	None
	Hazard statement:	None
	Precautionary advice:	None
	Special provisions:	EUH210 Safety data sheet available on request.
2.3 OTHER DANGERS	Additional elements:	The product is not considered dangerous according to EC Regulation 1272/2008 (CLP).
	Evaluation PBT e vPvB:	It does not contain substances considered to be persistent, bioaccumulative or toxic.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 SUBSTANCES	This product is not a substance.
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Scheda di sicurezza DRYflex 1 Part A

Two-component waterproofing acrylic resin

3.2 MIXTURES

This product is a blend.

Hazardous components:

POLIETILENGLICOL DIACRILATO

Concentration/ -range: <10%

No.CE.: Polymer

REACH registration number: Not applicable (Polymer).

Classification according to Regulation (CE) 1272/2008: Eye Irrit. 2; H319

N,N'-METHYLEN ACRYLAMIDE

Concentration/ -range: < 5%

No.CE.: 203-750-9

Classification according to Regulation (CE) 1272/2008: Acute Tox. 4; H302, Acute Tox. 4; H332

For explanation of abbreviations see paragraph 16

4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

Inhalation: There are no dangers that require special first aid measures. Call a doctor if symptoms occur.

Skin contact: Wash with soap and water.

Eye contact: If in contact with eyes, rinse with water for 15 minutes. Call a doctor if irritation persists.

Ingestion: DO NOT induce vomiting unless recommended by a doctor or poison control center. Seek immediate medical attention if symptoms occur.

4.2 MAIN SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

May cause eye irritation of susceptible persons.

4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

None.

Treatment: See point 4.1

5. FIREFIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

Suitable extinguishing media

Use water spray, alcohol resistant foam, dry chemicals or carbon dioxide.

Safety data sheet

DRYflex 1 Part A

Two-component waterproofing acrylic resin

	<i>Extinguishing agents to avoid:</i>	None
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE	<i>Hazardous decomposition products:</i>	Thermal decomposition can generate: nitrogen oxides (Nox), carbon oxides (COx).
5.3 ADVICE FOR FIREFIGHTERS	<i>Protection measures:</i>	Wear full protective clothing and self-contained breathing apparatus.
	<i>Other data:</i>	None
6. ACCIDENTAL RELEASE MEASURES		
6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	<i>Individual precautions:</i>	Avoid contact with eyes.
	<i>Protective clothing:</i>	Safety glasses with side shields.
	<i>Emergency procedures:</i>	Keep people away from leaks.
6.2 ENVIRONMENTAL PRECAUTIONS		Do not allow contact with the soil, surface water or groundwater.
6.3 METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP		Dry with inert absorbent material. Avoid further dripping or leaking.
	<i>Small spills:</i>	Dry with inert absorbent material.
	<i>Large spills:</i>	Do not wash or flush with water.
	<i>Residues:</i>	After removal, clean all traces with water.
6.4 REFERENCE TO OTHER SECTIONS	<i>Section 7</i>	Handling and Storage
	<i>Section 8</i>	Controls in case of exposure / personal protection.
	<i>Section 13</i>	Disposal considerations.
7. HANDLING AND STORAGE		
7.1 PRECAUTIONS FOR SAFE HANDLING		Avoid any contact with the eyes
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES		Keep in a dry, cool and well-ventilated place.
7.3 SPECIAL END USES		Monomer for polymerization.

Scheda di sicurezza DRYflex 1 Part A

Two-component waterproofing acrylic resin

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 CONTROL PARAMETERS	National exposure limits	None
	Derived level with no effect (DNELs) / Derived level with minimal effects (DMELs)	None
	The predictable concentration with no effect (PNECs)	None
8.2 CONTROLLI DELL'ESPOSIZIONE	Engineering measures to reduce exposure:	Use the local ventilation system if fogs are created. Natural ventilation is ade- quate in the absence of fog.
	Individual protection measures, such as personal protective equipment:	
	Eye / face protection:	Safety glasses with side shields.
	Skin protection:	Complete protective clothing.
	Hand protection:	Gloves in PVC or other plastic material.
	Respiratory protection:	Not required, except in case of aerosol formation.
	Additional Tips:	Wash hands after handling. Wash hands before breaks and at the end of the working day.

9. PHYSICAL AND CHEMI- CAL PROPERTIES

9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES	Appearance:	Liquid
	Odour:	Light
	Odor threshold:	Not applicable
	pH:	6 - 8
	Melting point / freezing point:	< 0°C
	Boiling point and boiling range:	> 100°C
	Flash point	It is not flammable
	Evaporation rate:	No data available
	Flammability (solid, gas):	Not applicable
	Upper / lower flammability or explosive limits:	It is not expected to create explosive atmospheres

Safety data sheet

DRYflex 1 Part A

Two-component waterproofing acrylic resin

<i>Vapor pressure:</i>	2.3 kPa @ 20°C
<i>Vapour density:</i>	Equivalent to that of water (~ 0,8 g/l).
<i>Relative density:</i>	1.1 - 1.3
<i>Solubility (ies):</i>	Fully miscible.
<i>Partition coefficient:</i>	No data available.
<i>Self-ignition temperatures:</i>	No data available.
<i>Temperature di decomposizione:</i>	No data available.
<i>Viscosity:</i>	See the technical bulletin.
<i>Explosive properties:</i>	Not expected to be explosive based on chemical structure.
<i>Oxidising properties:</i>	It should not be oxidizing based on the chemical structure.

9.2. OTHER INFORMATION None

10. STABILITY AND REACTIVITY

10.1 REACTIVITY	Stable if stored according to the recommendations. The polymerization is initiated by free radicals and peroxides.
10.2 STABILITÀ CHIMICA	Stable under normal conditions.
10.3 POSSIBILITY OF HAZARDOUS REACTIONS	Keep away from oxidizing agents and strongly alkaline or acidic materials in order to avoid exothermic reactions.
10.4 CONDITIONS TO AVOID	Incompatible with strong acids and bases. Incompatible with oxidizing agents
10.5 INCOMPATIBLE MATERIALS	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS	Thermal decomposition can generate: nitrogen oxides (Nox), carbon oxides (COx).

11. TOXICOLOGICAL INFORMATION

11.1 Toxicological information	<i>Information about the supplied product:</i>	
	<i>Acute oral toxicity:</i>	DL50/orale/on Rat > 2000 mg/kg (Valued)
	<i>Acute dermal toxicity:</i>	DL50/cutaneous/on Rat > 2000 mg/kg (Valued)
	<i>Acute Inhalation Toxicity:</i>	The product is not toxic by inhalation.

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<i>Skin corrosion / irritation:</i>	Non Irritating
<i>Serious Eye Damage / severe eye irritation:</i>	May cause mild eye irritation.
<i>Respiratory or cutaneous sensitization:</i>	The product is not considered a "sensitizer".
<i>Mutagenicity:</i>	Not mutagenic.
<i>Carcinogenicity:</i>	Not a carcinogen.
<i>Toxicity for reproduction:</i>	Not toxic to reproduction.
<i>STOT - single exposure:</i>	No known effect.
<i>STOT - repeated exposure:</i>	No known effect.
<i>Aspiration hazard:</i>	No risk deriving from the material thus supplied.

Useful information on hazardous components:

POLIETILENGLICOL DIACRYLATE

<i>Acute oral toxicity:</i>	No data available
<i>Acute dermal toxicity:</i>	No data available
<i>Acute Inhalation Toxicity:</i>	No data available
<i>Skin corrosion / irritation:</i>	Non Irritating. (OCSE 404)
<i>Serious Eye Damage / severe eye irritation:</i>	Severely Irritating to the eyes.
<i>Respiratory or cutaneous sensitization:</i>	No data available
<i>Mutagenicity:</i>	No data available.
<i>Carcinogenicity:</i>	No data available.
<i>Toxicity for reproduction:</i>	No data available
<i>STOT - single exposure:</i>	No known effect.
<i>STOT - repeated exposure:</i>	No known effect.
<i>Aspiration hazard:</i>	No known effect.

N,N'-METHYLEN ACRYLAMIDE

<i>Acute oral toxicity:</i>	DL50/orale/on Rat = 390 mg/kg
<i>Acute dermal toxicity:</i>	No data available
<i>Acute Inhalation Toxicity:</i>	Harmful by inhalation
<i>Skin corrosion / irritation:</i>	No data available
<i>Serious Eye Damage / severe eye irritation:</i>	No data available
<i>Respiratory or cutaneous sensitization:</i>	No data available
<i>Mutagenicity:</i>	No data available.
<i>Carcinogenicity:</i>	No data available.
<i>Toxicity for reproduction:</i>	No data available
<i>STOT - single exposure:</i>	No data available
<i>STOT - repeated exposure:</i>	No data available
<i>Aspiration hazard:</i>	No data available

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12. ECOLOGICAL INFORMATION

Information about the supplied product:

<i>Acute Toxicity for Fish</i>	LC50/Fish/96 hours > 100 mg/L (Valued)
<i>Acute Toxicity for Invertebrates</i>	CE50/Daphnia/48 hours > 100 mg/L (Valued)
<i>Acute Toxicity for Algae:</i>	IC50/Chlorophic algae/72 hours > 100 mg/L (Valued)
<i>Chronic Toxicity for Fish:</i>	No data available.
<i>Chronic Toxicity for Invertebrates:</i>	No data available.
<i>Toxicity for microorganisms:</i>	No data available.
<i>Effects on soil organisms:</i>	No data available.
<i>Sediment toxicity:</i>	No data available.

Useful information on hazardous components:

POLYETHYLENGLYCOL DIACRYLATE

<i>Acute Toxicity for Fish</i>	No data available.
<i>Acute Toxicity for Invertebrates</i>	No data available.
<i>Acute Toxicity for Algae:</i>	No data available.
<i>Chronic Toxicity for Fish:</i>	No data available.
<i>Chronic Toxicity for Invertebrates:</i>	No data available.
<i>Toxicity for microorganisms:</i>	No data available.
<i>Effects on soil organisms:</i>	No data available.
<i>Sediment toxicity:</i>	Exposure to sediments is unlikely.

N,N'-METHYLEN ACRYLAMIDE

<i>Acute Toxicity for Fish</i>	LC50/Oncorhynchus mykiss/96 hours = 240 mg/L
<i>Acute Toxicity for Invertebrates</i>	No data available.
<i>Acute Toxicity for Algae:</i>	No data available.
<i>Chronic Toxicity for Fish:</i>	No data available.
<i>Chronic Toxicity for Invertebrates:</i>	No data available.
<i>Toxicity for microorganisms:</i>	No data available.
<i>Effects on soil organisms:</i>	No data available.
<i>Sediment toxicity:</i>	No data available.

12.2 PERSISTENCE AND DEGRADABILITY

Information about the supplied product:

<i>Degradation:</i>	No data available.
<i>Hydrolysis</i>	No data available.
<i>Photolysis:</i>	No data available.

Useful information on hazardous components:

POLIETILENGLICOL DIACRILATO

<i>Degradation:</i>	No data available.
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	Hydrolysis	No data available.
	Photolysis:	No data available.
<i>N,N'</i> -METHYLEN ACRYLAMIDE	<i>Degradation:</i>	No data available.
	<i>Hydrolysis</i>	No data available.
	<i>Photolysis:</i>	No data available.
12.3. POTENTIAL OF BIOACCUMULATION	<i>Information about the supplied product:</i>	No data available.
	<i>Partition coefficient (Log Pow):</i>	No data available.
	<i>Factor di bioconcentration (BCF):</i>	No data available.
	<i>Useful information on hazardous components:</i>	
POLYETHYLENGLYCOL DIACRYLATE	<i>Partition coefficient (Log Pow):</i>	No data available.
	<i>Factor di bioconcentration (BCF):</i>	No data available.
<i>N,N'</i> -METHYLEN ACRYLAMIDE	<i>Partition coefficient (Log Pow):</i>	No data available.
	<i>Factor di bioconcentration (BCF):</i>	No data available.
12.4. MOBILITY IN THE SOIL	<i>Information about the supplied product:</i>	Exposure to soil is not to be expected.
	<i>Koc:</i>	No data available.
	<i>Useful information on hazardous components:</i>	
POLIETILENGLICOL DIACRILATE	<i>Partition coefficient (Log Pow):</i>	No data available.
	<i>Factor di bioconcentration (BCF):</i>	No data available.
<i>N,N'</i> -METHYLEN ACRYLAMIDE	<i>Partition coefficient (Log Pow):</i>	No data available.
	<i>Factor di bioconcentration (BCF):</i>	No data available.
12.5. RESULTS OF PBT AND VPVB EVALUATION	<i>Evaluation PBT:</i>	They do not meet the criteria set out in Annex XIII of the REACH regulation.
	<i>Evaluation vPvB:</i>	They do not meet the criteria set out in Annex XIII of the REACH regulation.
12.6. OTHER ADVERSE EFFECTS	Not known.	

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13. CONSIDERATIONS ON DISPOSAL

13.1 WASTE TREATMENT METHODS	Waste from Scraps / unused products:	It can be landfilled or incinerated, when local legislation allows.
	Contaminated containers:	Eliminate in compliance with current legislation.
	Materials recovery:	If recycling is not practicable, dispose of according to local laws.

14. TRANSPORT INFORMATION

HS code	29161100
Road transport (ADR / RID)	Not classified.
Naval transport (IMDG)	Not classified.
Air transport (IATA)	Not classified.

15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGU- LATIONS/LEGISLATION SPECIFIC FOR THE SUB- STANCE OR MIXTURE	All components of this product have been registered or registered in advance with the European Chemicals Agency or are exempt from the registration obligation.
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15.2 CHEMICAL SAFETY ASSESSMENT	A chemical safety assessment has been carried out on this product by the person responsible for the development of this safety data sheet. All relevant information used for this evaluation is included in this safety data sheet and the measures to reduce the risks.
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16. OTHER INFORMATION

*Explanation or legend of abbreviations
and acronyms used in the safety data
sheet.*

Abbreviations	Acute Tox. 4 = Acute Toxicity Category 4 Eye Irrit. 2 = Serious eye damage / eye irritation Category 2
H-Phrases	H302 - Harmful if swallowed H319 - Causes serious eye irritation H332 - Harmful if inhaled
	EUH210 Safety data sheet available on request
Training instructions:	Do not manipulate before reading and understanding all warnings.

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This safety data sheet has been prepared in accordance with the following:

Regulation (UE) n. 453/2010

Regulation (CE) n. 1907/2006

Regulation (CE) n. 1272/2008
