ELASTOLIQUID

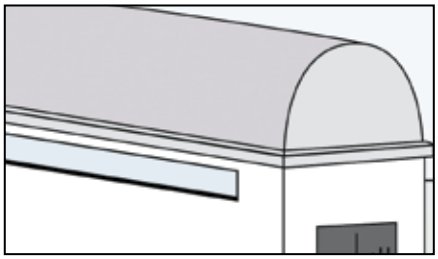
WATER BASED ELASTOMERIC DECORATIVE WATERPROOFING COATING FOR THE PROTECTION OF CONCRETE SURFACES, AND OLD WATERPROOFING MEMBRANES

GRANTS *LEED* CREDITS

CHARACTERISTICS			ENVIRONMENTAL	METHOD OF USE				PRECAUTIONS
A	H_2O							
ONE-COMPONENT	WATER BASED	WATERPROOFING	ECO GREEN	MIX MECHANICALLY	SPRAY APPLICATION	APPLY BY BRUSH	APPLY BY ROLLER	STORAGE: KEEP AWAY FROM FROST

PROBLEM

WATERPROOFING CONCRETE STRUCTURES WITH COMPLEX FORMS



How to waterproof and decorate concrete structures with a complex shape where the use of prefabricated polymer-bitumen membranes would be difficult and where the presence of heat sources and naked flames increases the risk of fire.

SOLUTION

ELASTOLIQUID is a liquid elastomeric waterproofing coating containing modified acrylic copolymers dispersed in water.
After drying, **ELASTOLIQUID** forms a flexible, tough film which adheres perfectly to the surface on which it has been applied.

APPLICATION FIELDS

ELASTOLIQUID is recommended for covering and waterproofing concrete roofs. It can also be used for waterproofing concrete terraces before stoneware or clinker tiles are bonded on, and, generally, on surfaces with complex geometrical shapes, where polymer bitumen membranes cannot be applied.
ELASTOLIQUID is suitable for waterproofing of concrete surfaces and polymer-bitumen membranes with slates which are self-protected by slate chippings or mineral granules.
On polymer-bitumen membranes or on old bituminous membranes the adhesion may vary depending on the age of the system and therefore the oil content still present in the bitumen. In these cases it will be necessary to test the adhesion of **ELASTOLIQUID** before proceeding with the application.

ACCORDING TO EUROPEAN NORMS
EN 1504-2
CONCRETE SURFACES PROTECTION

C
PI-MC-IR
PROTECTIVE COATING

ADVANTAGES

- Reduces concrete carbonation.
- Excellent protection from aggressive agents in the air.
- The product is not flammable in a liquid state.
- Atoxic product.

METHOD OF USE

• SURFACE PREPARATION
Concrete surfaces to be waterproofed must be clean, dry and free of dirt and powder. Any holes, fissures or cavities should have been previously filled and levelled with RESISTO line mortar (**1**); where necessary, falls must be constructed to allow for the complete drainage of rainwater.

• APPLICATION
ELASTOLIQUID must be carefully mixed in its container before use (**2**). The first coat may be diluted with approximately 5-30% of water depending on the type and porosity of the support.
The product can be applied by brush, roller, broom or spray (**3**). Surfaces to be painted must have sufficient falls to allow the complete drainage of rainwater which would otherwise cause ponding, softening the film coating, seriously affecting its adhesion to the support.
To achieve good protective results it is necessary to apply two crossed coats of **ELASTOLIQUID** coating; the second coat should be applied at least 24 hours after the first coat has completely dried. On surfaces subject to micro-cracking **ELASTOLIQUID** coating can be reinforced by inserting the "non-woven" polyester fabric reinforcement RINFOTEX between the layers of the paint. In this case the yield of ELASTOLIQUID increases to 0.5 kg/m².

• COVERAGE
The consumption of the material depends on the type and porosity of the support and on the required thickness of the waterproofing coating. Usually, when applying two or more coats, equal to a yield of 1 kg/m², a dry film thickness of 0.4 mm is obtained, which will be sufficient to guarantee the waterproofing of the surface.

• PRECAUTIONS
- Apply only to surfaces where rainwater drains properly; do not apply on surfaces subject to standing water.
- Do not apply on very hot surfaces because the film-forming process would be accelerated excessively with negative consequences on the product's cohesion and bonding to the surface.
- Keep the containers sealed before use.
- Apply at temperatures between +5°C and +35°C. Do not apply in excessively hot or cold conditions. Do not apply when there is a risk of the temperature falling below +5°C while the painted film is drying.
- Do not apply in very damp conditions or if there is the risk of rain while the film is still drying.
- Not suitable for foot traffic. The coating can be walked for periodic maintenance purposes only.
- New, just applied bituminous surfaces usu-

(See following)

TECHNICAL CHARACTERISTICS

	Standard	ELASTOLIQUID
Appearance		Pasty liquid
Colour		White RAL 9010 Grey RAL 7004 Red RAL 3009 Green RAL 6025 Black RAL 9011
Viscosità Brookfield	Internal method	20 000 ÷ 30 000 cps
Dry residue - at 130°C	UNI EN ISO 3251	64 ± 3%
Density	EN 2811-1	1.40 ± 0.10 kg/L
Shelf life in original packaging (dry stored)		12 months
Mix characteristics and workability		
Application thickness		0.4 mm (two coats)
Tempo di attesa - dust-free drying (*)		4 ÷ 6 hours
Waiting time - touch dry (*)		6 ÷ 8 hours
Waiting time - total dry (*)		2 ÷ 4 days
Application temperature		+5°C ÷ +35°C
Application		manual or spray
Performance characteristics	**Standard**	**Product performace**
Class and type	**EN 1504-2**	**C PI-MC-IR**
Cold flexibility	**UNI 1109**	–5°C
Permeability to acqueous vapour	**EN 7783**	Sd <5 m - class I
Adherence test	**EN 1542**	≥0.8 MPa
Capillary water absorption	**EN 1062-3**	w < 0.1 kg/m²·h0.5
Permeability to CO_2	**EN 1062-6**	Sd >50 m
Ultimate elongation	**NFT 46002**	300 ÷ 700%
Ultimate tensile strength	**NFT 46002**	1.0 ÷ 2.0 MPa
Thermal resistance - Operating temperature		–10°C ÷ +90°C
Hazardous substances	**EN 1504-2**	According note in ZA.1

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. **These data may change depending on specific site conditions: temperature, ventilation, moisture and substrate absorbency.**
(*) The times indicated will be longer or shorter as the temperature drops or rises.
Pursuant to European standard **EN 1504-2** - General principles for the use of products and systems.

(See previous)

ally have superficial 'outcrops' of hydrocarbons, which make perfect adhesion of film a problem. We recommend you to paint the coverings only 6 months after laying - this period is usually sufficient to eliminate surface 'outcrops'. However, just waiting is not always enough. Therefore, we advise making an estimate, by empirical tests with adhesive tape, in order to evaluate the quantity of dirt and, if necessary, the adhesion of the paints (the tests are described in the booklet entitled "The waterproofing guide"). If the surface is dirty, clean by brushing and wash with water. Should it be laid on a new covering, the surface of the last layer must be slated.

- If it's applied to sand-blasted polymer bitumen membranes laid on insulating packages it must be used in combination with RINFOTEX reinforcement.
- After use clean the tools with water and, if the product has dried, it is recommended to remove it with white spirit or hot water.
- Not frost-proof, keep at temperatures above +5°C.

PACKAGING

20-kg Pail
10-kg Pail
5-kg Can
1-kg Can

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

index
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