



WATER-BASED LIQUID MEMBRANES

RAPIDFLEX™

Two component water-based Bituminous Liquid Membrane for Heavy Duty Applications

Rapidflex is a rapid drying waterproofing material, featuring extremely high productivity properties.

The material is based on a unique bituminous emulsion featuring outstanding flexibility properties and excellent adhesion to concrete and to metal surfaces. Rapidflex can be applied with reinforcement geotextile for Waterproofing flat roofs (S1-S4) in accordance to ETAG 005 (certificate no. ETA 09/0016)



- » **Absolute waterproofing**
- » **High productivity**
(up to 1,000 m² (11,000 sq.ft) / day)
- » **Environmentally friendly**
- » **Applied immediately – No concrete curing required**
- » **Rapid Drying**
- » **Extremely High Flexibility**
- » **forms a seamless & uniform film**
- » **Radon-tight**

Product Uses

- Waterproofing underground foundations.
- Waterproofing basements floors and walls
- Waterproofing retaining walls
- Waterproofing Tunnels and Canals
- Waterproofing rooftop decks and verandas
- Waterproofing of roofs in accordance to ETAG 005 part 5

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General Instructions

- All surfaces to which Rapidflex is to be applied must be sound, stable and free from dirt, dust, loose debris, grease etc.
- Rapidflex is applied by a double head spraying machine. One nozzle sprays the Rapidflex and the second sprays the accelerator.
- Rapidflex can be applied over inclined planes, horizontal and vertical surfaces.
- Rapidflex should be thoroughly mixed for 5 minutes prior to use using the spraying machine's pump.
- Rapidflex and liquid accelerator are simultaneously sprayed at a ratio of 10:1 (10 Rapidflex: 1 Accelerator).
- Spray a quantity of 6.5 Kg / m² (15 gal/100 sq.ft) of Rapidflex to obtain a dry layer of 160 mils (4mm) thick.
- Footstep is permitted 3 hours from spraying completion.
- Let dry for 5 days for a complete dry, depending on local weather.

Instructions for use

1. **Accelerator solution preparation:**

- a. Solid accelerator should be diluted with water in a separate container prior to use: 80% water, 20% accelerator by weight.
25 kg (55 lb) of solid accelerator are dissolved in 100 L (26 gal) of water to prepare the liquid accelerator used for spraying.
- b. Thoroughly mix to obtain a homogeneous solution.

2. **Surface preparation :**

- a. All surfaces to which Rapidflex is to be applied must be sound, stable and free from dirt, dust, loose debris, oil, grease or honey combs etc.
- b. The primer is applied by spraying Rapidflex directly on the surface without the accelerator.
- c. Before applying as a primer, Rapidflex should be thoroughly circulated by using the spraying machine's pump for 5 minutes to obtain homogenous emulsion.
- d. The primer is sprayed under low pressure at a quantity of 150-200 gr/m² (0.35-0.45 gal/100 sq.ft) covering the surface with a thin, even layer, to result a black surface with no excess primer.
- e. Let dry for about 1 hour (depending on weather conditions)



3. Application:

- a. Place the Rapidflex container and the accelerator container next to the spraying machine. Introduce the suction hoses of each material to its specific container. Operate the machine and recycle the solutions.
- a. Rapidflex should be thoroughly mixed for 5 minutes prior to use using the spraying machine's pump.
- b. The accelerator should be applied to the Rapidflex in a foggy spray flow, using no excess accelerator but in a way that all the sprayed Rapidflex is covered by the accelerator.
- c. Check that water is exuded from the new layer in droplets and not streams.
- d. Check that the water exuded during the creation of the membranes is clear. Cloudy or brown water is a sign that the reaction is not complete and the membrane is impaired.
- e. Footsteps are permitted 3 hours from spraying completion.
- f. Let dry for 5 days for a complete dry, depending on local weather.
- g. Spraying should be done by moving the spraying gun at a continuous pace horizontally or vertically until achieving the required thickness.
- h. Rapidflex may be applied to damp but not waterlogged surfaces. Do not apply during rain or if rain is expected.
- i. The waterproofing layer has to be protected before backfilling with soil. Protect the waterproofing membrane with Pazdrain or Pazdrain plus dimpled sheets. The compaction of the backfill to a distance of 2 m (6 ft) from the wall should be done by a manual vibratory hand held compactor. No heavy compaction equipment should be allowed to travel close to the waterproofed wall. The backfill should not contain any stones over 40 mm (1.6 in). Waterproofing of horizontal layers should be protected with nonwoven geotextile with a CBR puncture strength over 1000 kN (225 lb) (BS EN ISO 12236), and a layer of screed or concrete.

Equipment care:

After finishing the entire job replace the suction hoses of the Rapidflex in vegetable oil and spray the left over Rapidflex in the system to a garbage container until getting clear solvent coming out from the nozzle.

Packaging

Rapidflex is available in the following packaging options:

1 ton IBC Cube/ 264 gallon cube
180 Kg metal Drum / 48 gallon drum
200 kg plastic drum / 53 gallon drum
Accelerator is available in 25 Kg bag / 55 lb.



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Technical properties:

Description	Property	Standard
Appearance:	Emulsion: Dark brown Membrane: black	
Specific gravity	1.02 ± 0.01	
Solid content	60 ±2 %	
Coverage	4.0-6.5 kg/m ² (9.5-15 gal/100 sq.ft)	
Dry film thickness	2.5-4.0 mm (100-160 mils)	
Flashpoint	Non flammable	
Application temperature:	+5°C to 40°C	Application temperature:
Heat stability	>90°C (194°F)	ASTM D 2939
Cold flexibility	< -20 °C (<-4 °F)	ASTM D 522
Low temperature flexibility and crack bridging	Pass Conduct @-26°C	ASTM C 836
Tensile Strength	> 0.1 MPa (> 14.2 psi)	ASTM D 412
Elongation at break	> 1200 %	ASTM D 412
Resistance to water pressure	> 1 atm, 24 hr (>14.7 psi, 24 hr)	DIN 52123
Water Vapor Permeance	0.35 perms	ASTM E 96
Recovery (800-900% elongation)	> 85%	ASTM D412
Creep AT 100°C	No creep	DIN 52123
Resistance to Standing water	Passed	ASTM D2939
Bacterial attack in soil 30 days 40°C (104°F)	Pass	ASTM D 3083



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Storage

- Store under cover out of direct sunlight and protect from extreme temperature.
- In tropical climates the product must be stored in an air-conditioned environment.
- In cold climates the product must be stored in heated environment (over 10°C/50°F). Do not freeze.
- Shelf life is up to 12 months when stored as above.

Precautions

- For Extended durability it is necessary to impregnate geotextile in the waterproofing system (polyester non woven geotextile 200 g/sq.m tensile strength 2.5 kN/m, CBR puncture test 0.5 kN. The geotextile should be fully impregnated with the waterproofing material by application of the bitumen part only without the accelerator. For specific instruction please contact Pazkar's technical department at info@pazkar.co.il.
- For roof application, it is important to verify on a periodical basis that there is no water leakage above the roof as a result of water tanks, air condition drains, etc.
- Do not enable direct roof drainage over the waterproofing system.
- Make sure you do not apply the material after (its Shelf life) expiry date (12 months from production date).

NOTE: Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

For specific storage advice consult Pazkar's representatives.

For Safety detailed instructions please refer to Pazkar's safety sheets (MSDS)



Warranty

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All orders are accepted subject to our current inventory, terms and conditions of sale and delivery.

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