

RAPIDFLEX RT

Two component water-based Bituminous Liquid Membrane for Heavy Duty Applications featuring anti Root properties

Rapidflex RT is a Root Resistance 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.

Product Uses

- Waterproofing of planters
- Waterproofing surfaces where root resistance is required.

Benefits & Advantages

Absolute waterproofing | High productivity (up to 1,000 m²/ day) | environmentally friendly | Applied immediately – No concrete curing required | Rapid Drying | Extremely High Flexibility | Forms a seamless & uniform film | Radon-tight

General Instructions

- All surfaces to which Rapidflex RT is to be applied must be sound, stable and free from dirt, dust, loose debris, grease etc.
- Rapidflex RT is applied by a double head spraying machine. One nozzle sprays the Rapidflex RT and the second sprays the accelerator.
- Rapidflex RT can be applied over inclined planes, horizontal and vertical surfaces.
- Rapidflex RT should be thoroughly mixed for 5 minutes prior to use using the spraying machine's pump.
- Rapidflex RT and liquid accelerator are simultaneously sprayed at a ratio of 10:1 (10 Rapidflex: 1 Accelerator).
- Spray a quantity of 6.5 Kg / m² of Rapidflex RT to obtain a dry layer of 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 of solid accelerator are dissolved in 100 L 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 RT 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 RT directly on the surface without the accelerator.
- c. Before applying as a primer, Pour Component B (the Root Resistant Additive), 15 Liter Can, into the Rapidflex Original Cube.
NOTE – Upon adding the Root Resistant Additive to the Rapidflex, material should be consumed on the same working day.

Rapidflex RT Cube 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 RT 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.
- b. Pour Component B (the Root Resistant Additive) to any new Rapidflex Cube
NOTE – Upon adding the Root Resistant Additive to the Rapidflex, material should be consumed on the same working day.
Rapidflex RT should be thoroughly mixed for 5 minutes prior to use by using the spraying machine's pump.
- c. The accelerator should be applied to the Rapidflex RT in a misty spray flow, using no excess accelerator but in a way the all the sprayed Rapidflex RT is covered by the accelerator.
- d. Check that water is exuded from the new layer in droplets and not streams.
- e. 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.
- f. Footsteps are permitted 3 hours from spraying completion.
- g. Let dry for 5 days for a complete dry, depending on local whether
- h. Spraying should be done by moving the spraying gun at a continuous pace horizontally or vertically until achieving the required thickness
- i. Rapidflex RT may be applied to damp but not waterlogged surfaces. Do not apply during rain or if rain is expected.
- j. 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 backfilled to a distance of 2 m (6ft) 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.
Waterproofing of horizontal layers should be protected with nonwoven geotextile with a CBR puncture strength over 1000 kN (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 RT in turpentine and spray the left over Rapidflex RT in the system to a garbage container until getting clear solvent coming out from the nozzle.

Technical properties

Description	Property	Standard
Appearance:	Emulsion: Dark brown Membrane: black	
Specific gravity	1	
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	
Service temperature:	-10 °C to +60 °C	
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)	Passed	ASTM D 3083
Root Resistance	Passed	DIN 4062

Packaging

Rapidflex RT is available in the following packaging options:

Rapidflex	1 Ton	IBC Cube
Component B (Root Resistant Additive)	15 Liters	Can
Accelerator	25 Kg	Bag

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 10oC/50oC). Do not freeze.
- Shelf life is up to 12 months when stored as above.

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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