ROOTS RAPID GUARD 104

DESCRIPTION

It is a modified bitumen with special resin to give these advantages:

- Corrosion protection on metal surfaces and other materials in constant humidity, immersed in water or on surfaces located underground such as chassis, pipes, gates, conduits, etc. Suitable as a base coat on cement for waterproofing bituminous finishes. Leaves a relatively hard and semi-gloss finished film.
- Excellent corrosion resistance for severe weather conditions and chemically polluted water for steel and concrete surfaces.

  Good abrasion resistance.
- Resistant to well-designed cathodic protection.

  Easy application.

  Protects surfaces by waterproofing.

  Resistant to immersion in water.
- Good resistance to sea and fresh water.
- Used to protect ballast tank, void spaces, coffer drums, steel work behind linings pipes and container.

  *Roots rapid guard 104 is suitable for drinking water and does not contain any toxic substances according to the tests of the Egyptian National Research Center.

PHYSICAL PROPERTIES:

• Color	black – brown.
• Specific gravity	1.20 – 1.25
• Solid by volume%	58 ±2
• Ash content	20% +1

• Wet film thickness	165 microns
• Dry film thickness	100 microns
• Solvent	Roots thinner no Ro1001.
• Theoretical spreading rate	4 .5 m2/kg (100 D.F.T)
• drying time	surface 10 – 20 min (at 25 ºC , 60 % R.H)
	5 – 10 min (At 70 - 80 ºC)
	Full cured; 3 days (at 25 ºC, 60 % R.H)
• Over coating interval	Min 2 hours (at 25 ºC, 60 % R.H)
	Max no limitation
• Shelf life	at least 12 months in original containers
	at normal conditions
• Flash point	35°C

SURFACE PREPARATION:

IRON AND STEEL. Steel surfaces must be completely clean and free from traces of paint in poor condition, dust, grease, rust and mill scale. To achieve good protection, abrasive blasting up to grade Sa 2 ½ according to ISO 8501-1 is recommended. Peeling paint coatings, mill scale, rust, and foreign matters must be removed. Any remaining trace of contamination should only show up as small circular spots or stripes. Alternatively clean by manual means using wire brushes, scrapers, prefabricated synthetic fabrics containing abrasives and rust chipping hammers, all in accordance with ISO 8504.3.

ALUMINUM AND GALVANIZED. Not recommended.

CONCRETE SURFACES. Newly laid concrete - wait until fully set (min 1 month). The surface must be completely dry. Pavement moisture should not exceed 4%, measured 2 cm deep. The surface must be firm and clean of dust, grout or grease and poorly adhered parts. Minimum tensile strength 15 kg / cm^2. Remove grease and rubber stains with solvents or detergents, then rinse the detergent with water. Use shot blasting and milling if they do not disappear. Grout and curing agents should be removed by shot blasting and milling, subsequently vacuuming the resulting dust, to obtain a clean rough surface free from foreign materials. The surface to be painted must be rough enough to ensure adhesion. It is convenient to apply on a preliminary test area of approx. $1m^2$, to verify compatibility and result before completing the whole surface

APPLICATION METHODS :

Airless spray

Volume of thinner	: 0 -5 %
Nozzle orifice	: approx. 0.58 mm (= 0.023 inch)

Brush/ Roller

Recommended thinner	: Roots thinner no RO1001.
Volume of thinner	: 0 - 5 %

SAFETY & ENVIRONMENT

As this is a solvent-based product, it must be applied with good air renewal and with the necessary protection measures. Avoid sources of ignition. Minimize product waste by estimating the necessary quantity, taking into account the m^2, porosity and texture of the substrate. Store the excess material in a ventilated and dry place. The container should be clean and

sized for the amount of leftover product. Close containers carefully and keep upright to avoid spillage. Preserve the containers from frost, high temperatures and direct sun exposure. Recover unused product for a new use and reduce environmental effects. Do not eat, drink, or smoke during the preparation and application of the product. Surface preparation and application operations must be carried out with the corresponding safety measures. For more information consult the Safety Data Sheet. In case of contact with the eyes, wash with plenty of clean water. Keep out of the reach of children. Do not discharge into drains or the environment. Dispose of at an authorized waste collection point. Consult your city council about the correct recycling of both the container and the waste and leftover paint in accordance with the law and principles of environmental respect.