MEGAPOXY 154

WATER BASED EPOXY COATING

DESCRIPTION

Megapoxy 154 is a two component water based epoxy which combines the superior adhesion and toughness of Megapoxy resins with the advantages of using water as a carrier. Megapoxy 154 is used to prime, coat and seal concrete and masonry surfaces. Megapoxy 154 cures to a matte, tough, chemical and water resistant coating with excellent adhesion to sound concrete. Megapoxy 154 is recommended for use as a protective coating on concrete surfaces exposed to chemicals, foot traffic and light vehicular traffic. Since Megapoxy 154 is an environmentally friendly product it is particularly suited to large areas such as car parks and warehouses etc.

PRODUCT CHARACTERISTICS

Water based epoxy	Excellent adhesion and penetration to damp surfaces and green concrete
Environmentally friendly	
Excellent water resistance	Excellent oil resistance
Superior adhesion to fresh concrete	High resistance to chemicals

COMMON APPLICATIONS

Primer for damp surfaces	Dust sealing for interior concrete floors
Moisture barrier on damp surfaces	Concrete curing membrane
Sealing concrete slabs before vinyl and timber overlays	Primer for acrylic and polyurethane membranes (excluding WBE Clear)

PROPERTIES

Availability	20 Litre Kit (10 Litre A + 10 Litre B)
Colour (Mixed)	Grey
Mixing Ratio by Volume	: Part A - 1 Part
	: Part B - 1 Part
Working Time (1 litre mix)	: 45 minutes at 25°C, <50% relative humidity
Re-Coat Time	3 - 5 Hours at 25°C, <50% relative humidity
Full Cure	72+ hours at 25°C, <50% relative humidity
Coverage	5 - 8 m² / litre / coat
Solids Content	50% by Volume

MIXING PROCEDURE

Mixing Megapoxy 154 is simple process. Mix 1 Part A with 1 Part B by Volume. Place into a clean mixing vessel, such as plastic bucket and stir for minimum 3 minutes or until sufficiently mixed. After the Part A (resin) and Part B (hardener) are sufficiently mixed up to 25% water can be added and mixed until completely homogeneous. Accurate measurement and thorough mixing is essential. Incomplete mixing will result in poor physical properties. Please Note; Do not mix resin, hardener and water at the same time. Resin and hardener must be mixed before the addition of any water.

VIVACITY ENGINEERING PTY LTD
3 Sefton Road, Thornleigh, NSW 2120 | PO BOX 71, Hornsby NSW Australia 1630
Phone: 61 (2) 9875 3044 | Fax: 61 (2) 9875 3665 | Email: info@megapoxy.com
www.megapoxy.com | ABN 78 305 545 664

SURFACE PREPARATION

All surfaces must be structurally sound and all previous coatings, adhesives, efflorescence or laitance should be removed by grinding, abrasive blast cleaning, high pressure water washing, mechanical scrubbing or any other suitable means. All surfaces must be cleaned free from dirt, grease, oil or other surface contaminants. Holes, non-structural cracks and other surface deformities should be repaired with other Megapoxy products before application of Megapoxy 154.

APPLICATION

Porous concrete may require 3 coats of Megapoxy 154. Mixing should be done with the use of mechanical stirrers. Only mix as much as may be used within the pot life of the product. Megapoxy 154 is a minimum two-coat system. Applying with a brush or roller, ensure to work the material into the substrate surface to fill voids and eliminate pin holing. Successive coats should be applied at right angles to the previous coat. It is recommended that the coating depth be tested at random points with a wet film gauge.

Smooth Finish: Apply by brush, roller or airless spray at a rate of 5 – 8 sqm / litre. Apply minimum 2 coats.

Non-Slip Finish: If a fine non slip finish is required, it is possible to mix a fine epoxy grade sand aggregate into Megapoxy 154 and roll for even distribution. If a coarser non-slip finish is required then aggregate should be broadcast into the wet applied product and sealed with one or more subsequent coats.

PRECAUTIONS

Refer to MEGAPOXY 154 SDS prior to use. Megapoxy 154 cure rates will be dramatically slowed if the relative humidity is above 80%. Do not apply to steel or metal surfaces, as corrosion will occur. Do not add cementitious products to Megapoxy 154. Megapoxy 154 is not a waterproof membrane on its own. A dedicated waterproofing membrane should be used. In enclosed areas, such as water tanks or reservoirs, basements, or cubicles, ventilation should be provided to enable adequate evaporation of the coating. Allow to cure for a minimum of 24hours at 25°C and 50% Relative Humidity before applying other waterproof membranes, adhesives, mortars, decorative coatings or other surface treatments. Megapoxy 154 will tend to chalk and yellow when exposed to UV light. For external use apply a U.V. resistant top coat. Do not apply over any substrate that has been previously treated or coated with curing compounds, PVA concrete bonding agents and or acrylic coatings. These areas must be mechanically cleaned by grinding or shot blasting to produce a contamination free surface. Megapoxy 154 is rigid when cured and will not absorb movement cracks.

When using Megapoxy 154 in cold temperatures follow mixing instructions and add at least 1 extra minute of mixing to ensure a homogeneous paste is obtained. Allow to stand for 5 minutes after mixing as this will accelerate the drying time. Cure rates will be dramatically slowed if substrate surface or ambient temperature is below +10°C. If Megapoxy 154 is applied in cooler conditions, substrate temperatures can produce amine blush, resulting in an oily residue and or areas of uncured tacky discolorations. Ensure removal of the contamination prior to application of any further coating to ensure adhesion of the next coat. Store Megapoxy 154 at 20°C for 24 hours prior to use. Warm substrate surface area by an air blower or use a blower after application. Always provide adequate ventilation during the drying cycle.

CLEANING UP

To keep mixing implements and working tools clean use clean cold water and/or detergent. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene. For further details refer to Bulletin No. 100.

VIVACITY ENGINEERING PTY LTD
3 Sefton Road, Thornleigh, NSW 2120 | PO BOX 71, Hornsby NSW Australia 1630
Phone: 61 (2) 9875 3044 | Fax: 61 (2) 9875 3665 | Email: info@megapoxy.com
www.megapoxy.com | ABN 78 305 545 664