

# ROCKMAX<sup>®</sup> EPOGARD W1



## SOLVENT FREE EPOXY COATING FOR DRINKING WATER RETAINING STRUCTURES

### INTRODUCTION

**Rockmax Epogard W1** is a two component, solvent free epoxy coating or lining. The cured material provides hard, gloss, smooth and watertight to concrete surfaces with and including abrasion and chemical resistance. It is suitable with potable or drinking water tank. The cured material is non-toxic.

### AREA OF USES

**Rockmax Epogard W1** is used for coating and lining concrete or steel surfaces such as waterproofing the internal of drinking water retaining tanks, waste water tanks, sewages, tunnels, reservoirs, retaining walls.

### ADVANTAGES

- Excellent chemical resistance.
- Excellent abrasion resistance.
- Hard wearing surface.
- Corrosion resistance.
- Waterproof.
- Food grade and hygienic.
- Solvent free and non-toxic.
- Protect moisture movement.
- Easy for cleaning.
- Good adhesion to concrete.

### TECHNICAL PROPERTIES

Standard color:	Grey
Chemical base:	Thixotropic epoxy
Form:	Liquid
Specific gravity:	1.15±0.05 (mix)
Solid Content:	100%
Mix ratio (A:B):	3 : 1 (by weight)
Compressive strength:	50 N/mm <sup>2</sup> (7 days)
Tensile strength:	20 N/mm <sup>2</sup> (7 days)
Adhesion to concrete:	>2.8 N/mm <sup>2</sup> (7 days)
Pot life (30°C):	20-25 minute
Over-coating (30°C):	5-6 hours
Foot traffic (30°C):	12 hours
Full Cure (30°C):	7 days
Application temp:	10°C - 35°C
Max services temp:	65°C
Max relative humidity:	85%
Coverage rate (roller):	0.20 – 0.35 kg/m <sup>2</sup> /coat
Number of coat:	minimum 2 coats
Thickness per coat:	150-200micron (approx)

**Note:** The figures are theoretical and test on control environment laboratory. Actual measured data may vary due to circumstances.

### PREPARATION

Concrete must be sound, clean and free from oil, grease, wax, cement paste, dust, dirt and any other contaminants. Concrete must be at least 28 days and minimum Compressive strength 25N/mm<sup>2</sup> and minimum tensile strength (pull off) at 1.5 N/mm<sup>2</sup>. The moisture content in concrete must be lower than 6%. The substrate should not have a relative humidity more than 85% at installation period. Total enclosed grinding, high water pressure jet, or scarifying must be employed followed by vacuuming. All holes and voids must be repaired prior to installation. Seal the surface with moisture barrier or modified epoxy cement in case of surface subject to rising damp or moisture movement. Please consult **Rockmax** for more information.

### PRIMING

Apply **Rockmax Epogard P** by roller at one coat at approximate coverage rate 0.2 kg/m<sup>2</sup>. Allow the prime coat to dry approximate 4 hours. The difference type of primers must be considered according to substrate conditions.

### MIXING

Stir base and hardener component separately approximate 10 second. Pour part A and part B together in the bucket and continue mixing for 3 minute until homogeneous. Avoid whipping air into the material. It is recommended that only full units to be used, that all components are thoroughly mixed. We do not recommend using partial kits and reduce or dilute materials.

### APPLICATION

Applied **Rockmax Epogard W1** by roller or stiff nylon type brush. Allow the first coat dry at approximate 5-6 hours (30°C) and the second coat must be applied not more than 48 hours after the first coat application. When finished the application protect the coating from water.

### CLEANING

Clean all tools and equipments immediately with thinner. Hard material must be removed by mechanical means.

### LIMITATIONS

- Do not apply over existing coating.

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FOR DRINKING WATER RETAINING STRUCTURES




- Do not apply on surface have standing water.
- Do not dilute product by any solvents or thinners.
- Do not partial mix.
- For damp surface application, please consult **Rockmax**.
- To avoid water spot on the surface, Do not apply material when ambient temperature reach dew point before the coating has cured.
- Do not expose material to direct UV.
- Do not apply on modified cementitious mortar substrates such as acrylic polymer, latex, PVA, SBR polymers.

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#### *IMPORTANT NOTE!!*

*The technical information contained herein, while not guaranty, was prepared and approved by technical personnel and is true, accurate to the best of our knowledge. No warranty or guaranty is made regarding performance, stability or other factors beyond our control. Rockmax will welcome to be consultation of our performance and application. This technical datasheet supersedes and issue new edition without prior notice.*

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#### PACKAGING

24kg set (A+B). Part A: 18kg and Part B: 6kg.

#### STORAGE

Storage in shade and dry condition. Avoid from frost, water, UV, moisture and high temperature.

#### SHELF LIFE

12 months if kept follow instruction and unopen.

#### PRECAUTIONS

Avoid contact with skin and eye. Avoid inhalation. Harmful effects may cause during application and care must be taken. Do not expose to flames or other sources of ignition. No smoking allowance. Ventilation must be provided. Some components of this product may be hazardous during mixing and application. Keep out of reach of children. MSDS is available upon request.

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