

EPOCOTE 104 UW

A SOLVENT FREE UNDERWATER EPOXY

DESCRIPTION

Epocote 104 UW is a specially designed two component solvent free epoxy that can be directly applied on wet and damp surfaces of concrete and mild steel. It is particularly useful where concrete surfaces are damp and cannot be dried out. It provides outstanding adhesion on wet blasted surfaces.

USES

It is most suitable for rehabilitation of corroded steel and concrete structures in tidal zone and below water line where conventional protective coatings are not applicable. The cured film is corrosion, chemical and abrasion resistant and is suitable for application to sewage works, marine environments, basements and tunnels.

BENEFITS

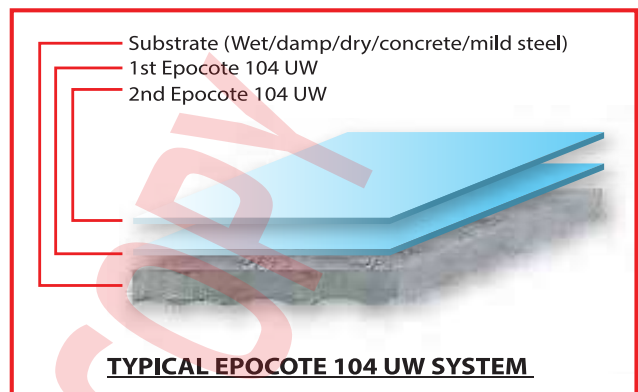
- Can be applied directly to mild steel and concrete above and below water line
- Corrosion, chemical and abrasion resistant
- Durable - Tough and impermeable layer with excellent resistance against salt and water
- Adhesion - Excellent adhesion to damp surfaces
- Under-water curing - capable of application and curing under water

COLOR

Available in a range of standard color combinations. Special colors can be matched on request.

FINISH

Gloss.



Technical Data :	
No. of Components	2
No. of Coats Recommended	2
Finish	Gloss
Pot Life	25 minutes (varies with temperature)
Volume solid	100 %
Thickness	200 - 300 microns DFT
Mixing Ratio	4:1 by weight
SG	1.4
Drying	Touch dry : 2 hours @ 25 °C Topcoat: 12 hours @ 25 °C Full cure: 7 days @ 25 °C
Theoretical Coverage	4.76 m ² /kg @ 150 microns DFT/coat. Recommended to apply two coats
Packaging	Available 5 kg packs, consisting of Base A & Hardener B
Shelf life	12 months in unopened container stored <25°C

NOTE: Coverage figure given is theoretical. Due to wastage factors, the variety nature of the substrate, and the site application condition, etc., the practical coverage may be reduced.

The information given in this data sheet is to the best of our knowledge true and accurate; but as we have no control over where or how the product is applied, there are no warranties expressed or implied regarding the product's use or performance. Customers are advised to thoroughly test before adapting them to their own use. It is strongly recommended to trial on small area before large scale application.

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SPECIFICATION**SURFACE PREPARATION**

Remove oil and grease from surface to be painted with suitable degreaser prior to painting for surfaces above water.

STEEL: All surfaces should be grit blasted to meet the requirements of BS 7079 Sa2.5. The lining work should be programmed so that newly cleaned steel is coated as soon as possible before the formation of rust or scale.

CONCRETE: Wet blasting or high pressure water jet blasting is recommended to remove surface contaminants before application of coatings. All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth.

MIXING

Mix Base A with Hardener B thoroughly using a slow speed industrial drill with a helical spinner.

THINNING

Although not recommended, however in hot and dry application environment, up to 5% thinner 104 UW can be added to improve workability.

PACKAGING

Available 5 kg packs, consisting of Base A & Hardener B.

APPLICATION

Can be applied by brush, roller or spray above water. For underwater applications, brush or roller is recommended.

STORAGE AND SHELF LIFE

Stored unopened in dry conditions at 25oC, shelf life will be 12 months minimum.

CHEMICAL RESISTANCE

Excellent and good resistance to oil, sugar, most acids and alkaline. Consult **CEMKRETE** for more detail test data.

CHEMICAL RESISTANT CHART:-

	Excellent	Good	Limited
Hydrochloric Acid 10%	√		
Sulphuric Acid 25%	√		
Sugar Syrups	√		
Caustic Soda	√		
Petrol		√	
Oil	√		
Detergents		√	
Sea Water	√		

HEALTH AND SAFETY

Some of the components of this product may be hazardous during mixing and application. Please consult the relevant Health & Safety Data Sheets, available from **CEMKRETE (M) SDN BHD**.

TOOL CLEANING

Clean tools with Cemkrete Universal Cleaner.

FURTHER INFORMATION

Where other products are to be used in conjunction with this material, the relevant technical data sheets should be consulted to determine overall requirements.

CEMKRETE have a wealth of technical and practical experience built up over many years in our pursuit of excellence in steel and concrete protection technology.

Customers are welcome to call our Technical Service Department on all matters pertaining to coatings.

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