



Zahabiya CORROEX UW21

HIGH PERFORMANCE ANTI CORROSIVE EPOXY MASTIC

Zahabiya CORROEX UW21 is a versatile, 100% EPOXY MASTIC for use in dry, wet and under water conditions. With its unique ability to cure underwater, accompanied with high impact and abrasion resistance, this quick and easy to use putty-like mastic is ideal for many applications. It has excellent sag resistance for application to vertical or inclined surfaces and a convenient 2 to 1 mix ratio by weight. It undergoes a yellow-plus-black-makes-green colour change to ensure it is mixed properly. To ensure proper mixing, It's both components are so pigmented to produce a distinctly different colour, enabling the user to visually confirm if the two components have been homogeneously mixed.

CORROEX UW21 solvent-free epoxy can be used for repairing pits, cracks and voids in steel, concrete, wood and other surfaces. CORROEX UW21 Epoxy has the unique ability to be mixed, applied and cured underwater.

TECHNICAL & PHYSICAL PARAMETERS:

	<u>VALUE</u>	<u>TEST METHOD</u>
Base Color A	Yellow	Visual
Hardener Color B	Black	Visual
Mixed Color A + B	Olive Green	Visual
Base A Density, g/cm ³	1.75 ± 0.1	ASTM D-1475
Hardener B Density, g/cm ³	1.40 ± 0.1	ASTM D-1475
Mixed A + B Density, g/cm ³	1.60 ± 0.1	ASTM D-1475
Mixing Ratio by Weight A + B	2 : 1	Calculated
Sag Resistance, cm	> 1	Vertical Surface
Pot Life @25°C	30 minutes	Observed
Toch Dry @25°C	50 minutes	Observed
Tack Free @25°C	2 hours	Observed
Deep Dry @25°C	4 hours	Observed
Full Hard	24 hours	Observed



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Compressive Strength, psi	12,500	ASTM D-695
Flexural Strength, psi	7,900	ASTM D-790
Hardness Shore D	90	ASTM D-2240
Heat Resistance 1 hr @ 160°C	No Blistering No Cracks No Sag	After 2 hours of Application

SURFACE PREPARATION:

Remove all dirt, oil, grease, loose paint, rust, rotted and spalled concrete, rotted wood, marine growth and other interference materials. Adhesion of Underwater Repair Epoxy will only be as good as the cleanliness of the substrate. Sand blasting is recommended.

MIXING AND HANDLING:

Mix ratio is 2:1 by weight. Scoop a quantity of 2 portions of component A (Yellow Base) from can. Scoop out 1 portion of component B (Black Hardener). Mix by with putty knife, wearing gloves. Keep hands and material wet with water during mixing. Measure and mix only as much CORROEX UW21 Epoxy as can be applied in the indicated work life. Curing is usually slower at lower temperatures.

APPLICATION:

Apply by hand wearing rubber gloves. Spread smoothly on surface in 1mm to 5mm layer as per requirement using spatula or hard brush apply pressure to displace water (in case of under water) and air bubbles. When starting another handful, start spreading at and away from the previously applied film so as not to trap air bubbles or leave an area of uncoated surface. When used as a patch or grout, force material into hole or crack and smooth by hand to the thickness needed.



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STORAGE:

Store at 15-35°C in a dry place. After use, tightly reseal all containers. Store products on a raised surface off the floor during cold weather and avoid storing near outside walls or doors. Epoxy resins that are contaminated with dust or moisture, or are subjected to low temperatures may crystallize. Do not use material that has any sign of crystallization until it has been liquefied. A crystallized resin or hardener can be returned to its original state by heating the material to 60°C to 65°C and stirring until it returns to the liquid state.

SAFETY HANDLING:

Work in well-ventilated areas using gloves, eye protection, and clothing protection. Avoid contact to the skin and eyes. Avoid clothing contamination. Wash thoroughly after handling. These products may cause skin and respiratory allergic reactions. Consult Safety Data Sheets (SDS) for complete health and safety information.

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME; NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties, expressed or implied. Our warranty is limited to the replacement of so proved defective Zahabiya original product only, provided used within shelf life as supplied originally.