

SEASHIELD SZ™ UNDERWATER EPOXY

Underwater Splash Zone Epoxy Mastic

Description

SeaShield SZ Underwater Epoxy is a solvent-free patching compound used for repairing pits, cracks and voids in steel, concrete, wood and other surfaces. SZ Underwater Epoxy has the unique ability to be mixed, applied and cured underwater.

Features

- 100% solids
- Provides corrosion protection
- Resists wave action
- Designed for underwater and other wet applications
- Can be applied up to 2" (50 mm) in thickness
- Self-priming on most surfaces and over most generic coatings
- Underwater rapid cure characteristics
- VOC free

Application

Remove all dirt, loose paint, spalling concrete, rotted wood, marine growth and other contaminants by hand/power tool cleaning, abrasive blasting or high water blasting. For small repairs less than one square foot, SSPC SP2 Hand Tool Cleaning or SP3 Power Tool Cleaning shall be acceptable, it is imperative that all marine growth is removed to provide good adhesion. For large areas greater than one square foot, surfaces shall be cleaned by abrasive blasting or high pressure water blasting with a minimum of 3000 psi (21 MPa) and maximum of 7000 psi (48 MPa). When working in the splashzone or in salt water, apply SeaShield SZ Underwater Epoxy as soon as possible to minimize new corrosion and / or marine growth.

Mix one Part A to one Part B by volume. Mix by hand "scooping" a quantity of the "A" component from the can and then "scoop" the same quantity of the "B" component from its can. Mix and knead the two components by hand until the yellow and black colors have combined to make a uniform olive green color. Apply the mixture immediately after mixing. To assist in mixing, keep the gloved hands and materials wet with water during the mixing process.

Apply by hand, trowel or broad knife. Spread SeaShield SZ Underwater Epoxy smoothly onto the surface in 1/8" (3 mm) to 1/4" (6 mm) thick layer using enough pressure to displace water and air bubbles. Smooth out the area by hand. When starting another mix, start spreading at and away from the previously applied film. This will help prevent trapped air bubbles or leaving an area uncoated.



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TECHNICAL DATA SHEET

If applying in dry surfaces in dry air, periodically re-wet hands or tools with water to keep the product from sticking. When used as a patch or grout, force the material into the hole or crack and smooth by hand to the thickness needed.

Storage

2 years when stored at 75°F (24°C) in original unopened containers.

Cleaning

Clean equipment with solvent cleaner (Acetone).

HSE

Wear protective clothing and ensure adequate ventilation. Avoid contact with skin and eyes. Refer to safety data sheet for further information.

Packaging

2 gallon (7.6 liter) kit

(1 gallon of part A base & 1 gallon of part B hardener yields 2 gallons)

(3.8 liters of part A base & 3.8 liters of part B hardener yields 7.6 liters)

10 gallon (38 liter) kit

(5 gallons of part A base & 5 gallons of part B hardener yields 10 gallons)

(19 liters of part A base & 19 liters of part B hardener yields 38 liters)

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TECHNICAL DATA SHEET

Tech Data

Properties	Imperial	Metric
Solids Content	100%	100%
Color	Olive Green or Gray	Olive Green or Gray
Components	Two	Two
Ratio	1:1 by volume	1:1 by volume
Recommended Dry Film Thickness	1/8" to 2"	(3.2 mm to 50 mm)
Topcoats	Epoxies, polyurethanes if required	Epoxies, polyurethanes if required
Application Method	Hand, trowel, or broad knife	Hand, trowel, or broad knife
Thinning	Can not be thinned	Can not be thinned
Cure Times@ 75°F (24°C)		
Dry to Touch	2 Hours	2 Hours
Dry to Handle or Topcoat	8 Hours	8 Hours
Maximum Recoat Time	24 Hours	24 Hours
Theoretical Coverage @ 1/8" (3 mm) thick (125 mils / 3 mm)	13.4 sq. ft./gallon	0.3 m ² /L
<p><i>Note: Actual field coverage is approx. 8 sq. ft./gallon (0.2 m²/L). This is due to working conditions and that the product is typically applied closer to 1/4" (6 mm) (250 mils / 3 mm).</i></p>		
Application Temperature	40°F to 110°F	4°C to 43°C
Pot Life at 70°F (21°C)		
Golf Ball Size Mix	40 Minutes	40 Minutes
Baseball to Softball Size Mix	30 Minutes	30 Minutes
1/2 Gallon (1.9 L) Mix	15 Minutes	15 Minutes
<p><i>Note: Working times are reduced by one half at temperatures above 80°F (27°C). Do not mix more material than can be applied in the working times listed above as the material will not properly adhere to the surface after application and curing.</i></p>		



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