

DESCRIPTION

Polywater Dura-Plate 100 Epoxy Mortar forms a high-strength, acid-resistant, protective seal coating for sanitary sewer lift stations, manholes, and other structures. It is impermeable to water and resistant to hydrogen sulfide. The 3-part resin aggregate system can be troweled onto overhead and vertical concrete surfaces. Dura-Plate 100 bonds well to concrete, PVC, polyethylene, wood, and metals.

Dura-Plate 100 cures to form a solid, durable seal.

PRODUCT BENEFITS

- Easy application – Does not require primer
- Chemically resistant – Excellent resistance to hydrogen sulfide and sulfuric acid
- Strong -- Excellent concrete adhesion, both at application, and after curing
- Protects – Abrasion resistant and provides waterproof barrier
- Non-sagging mortar – Great for vertical and overhead application

PERFORMANCE PROPERTIES

PROPERTY	PERFORMANCE
Compressive strength	10,000 psi (69 N/mm ²)
Flexural strength	5,800 psi (40 N/mm ²)

CHEMICAL RESISTANCE

Dura-Plate 100 Epoxy Mortar was tested for chemical resistance by immersing cured samples in 20% sulfuric acid at 70° F for 8 years and showed no sign of weight gain or change in appearance.

PHYSICAL PROPERTIES

PROPERTY	RESIN PART A	HARDENER PART B
Color	White	Tan
Form	Paste (100,000 cPs)	Gel (80,000 cPs)
Odor	No odor	Slight ammonia
Specific gravity (water = 1)	1.2	1.05
Part C is a specially formulated silica filler.		

APPLICATION PROPERTIES

Dura-Plate 100 Epoxy Mortar is thixotropic and spreads easily when troweling, but firms quickly when work is stopped to minimize sag.

APPLICATION PROPERTIES	
Pot life	2 hr @ 70°F (21°C)
Peak exotherm @ 70°F (21°C)	< 100°F (38°C)
Cure time @ 70°F (21°C)	
Initial set	4 hrs.
90% strength	7 days
Final strength	14 days
Installation temperature	45°F to 120°F (4°C to 50°C)
In-service temperature	-40°F to 250°F (-40°C to 120°C)

- Good surface preparation is critical
- Mix only complete batches until blend is a uniform color
- Do not thin with solvents

COVERAGE

The 5 gallon (18.9 L) pail kit covers 25 ft² (2.3 m²) at 1/8" (3 mm) thickness.

SAFETY

Dura-Plate 100 has a low level of toxicity. Good industrial hygiene practice and appropriate precautions should be employed during use. Avoid personal contact with the product. See SDS for specific details.

STORAGE AND HANDLING

Keep cans tightly closed in a cool, dark, dry location. All cans should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Unopened product has a shelf life of two years.

CONTACT US

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IMPORTANT NOTICE: The statements here are made in good faith based on tests and observations we believe to be reliable. However, the completeness and accuracy of the information is not guaranteed. Before using, the end-user should conduct whatever evaluations are necessary to determine that the product is suitable for the intended use.

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