

Patch Epoxy 222 is a three component, solvent free epoxy resin, high strength corrosion resistant mortar. It is a high strength material with no shrinkage. It is suitable as a bedding for repair and fresh applications of both horizontal and vertical surfaces. It is ideal for industrial walls and floors, cracks arising in roads, bridge decks, patch repair works, airport runways, sidewalks, parking floors, precast units, manhole benching etc.

ADVANTAGES

- ✓ Solvent free.
- ✓ Excellent chemical resistance.
- ✓ Can be used as a bedding mortar and structural repair mortar.
- ✓ Rapid hardening.
- ✓ High mechanical strength.
- ✓ Curing is not affected by high humidity.
- ✓ Abrasion and impact resistant.
- ✓ Vibration resistant.

TECHNICAL DETAILS

Property	Test Method	Value
Component	-	Three: Part A: Base Part B: Hardener Part C: Filler
Mixed Form	-	Mortar
Color	-	Grey
Mixed Density	ASTM D 1475	1.85 kg / Ltr ± 0.05
Pot life	-	45 ± 10 mins
Compressive Strength	BS 6319-2	85 N/mm ² @ 7 Days
Flexural Strength	BS 6319-3	20 N/mm ² @ 7 Days
Tensile Strength	BS 6319-7	12 N/mm ² @ 7 Days
Bond Strength	ASTM D 4541	>2 N/mm ² @ 7 Days
Application Temperature	-	+5°C to +40°C
Chemical Resistance	-	Resistant to a range of Alkalis, Solvents, acids, fuels etc. Please refer to the chemical resistant chart.

*Typical results under laboratory conditions.



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SURFACE PREPARATION

Cut back edges at right angles avoiding feather edges to a depth of at least 5mm. Surfaces should be dry, clean, free from standing water, grease, curing compounds, mold oils and loosely adhering particles. Cement laitance should be removed by mechanical means. Roughen surfaces with chipping to ensure good bonding. Steel surfaces should be grit blasted to white metal.

MIXING AND APPLICATION

Empty the entire contents of Filler into base container and mix thoroughly with a slow speed heavy duty drill attached with a mixing paddle for 5 minutes. Slowly add the Hardener into the mixed epoxy resin and filler paste and continue mixing until a uniform mix is achieved, addition of water in the mix should not be done to adjust consistency of the material. Once material is mixed properly, as per the requirement, application should be done using the appropriate tools. For large volumes, apply in layers ensuring the previous layers have hardened and cooled. Application thickness of the material can be anywhere from 3mm to 18mm in a single layer.

PACKAGING

Patch Epoxy 222 is available in Kit Forms:

16 KG Kit: Part A: 4KG Part B: 2KG Part C: 10KG

CHEMICAL RESISTANCE CHART FOR PATCH EPOXY 222

Chemical	Resistance
Acetic Acid 99%	NR
Acetic Acid 33%	1 day
HBr 47%	Excellent
HCl 12%	Excellent
Nitric Acid 57%	NR
Nitric Acid 19%	Excellent
Sulfuric Acid 98%	NR
Sulfuric Acid 33%	Excellent
ECH 50% in water	NR
DETA 50% in water	1 day
Toluene	Excellent
Petrol	Excellent
Lactic Acid	Good
Sodium Hydroxide 50%	Excellent
Water at 70°C	Excellent
Sodium Chloride 30%	Excellent
Methanol	NR
MEK	NR
MIBK	Excellent
<p>Key: Excellent: < 5% 80-day mass change Good: 5-10% 80-day mass change 1-day: < 10% 1-day mass change No Resistance: > 10 % 1-day mass change</p>	

HEALTH AND SAFETY

Patch Epoxy 222 is not regarded hazardous for transportation. Do not reuse the packaging and dispose them off as per local rules and regulations. Gloves and suitable masks can be worn during application. Please refer to the MSDS of the product for further health and safety information.