

EPO DUR 1042 BZ

Epoxy Grout Repair and Filler Mortar



DESCRIPTION

EPO DUR 1042 BZ is a 100% solid, three component free flow, non-shrink epoxy grout formulated to provide easy placement. It provides high strength and creep resistance combined with the highest effective bearing area.

TYPICAL APPLICATIONS

Provides a free flowing grout, for use where physical properties and chemical resistance of the hardened grout are of utmost importance. It is suitable for a wide range of heavy duty applications including:

- Base plate grouting in dynamic load situations such as turbines and other reciprocating machinery, rock crusher, pulping machines and heavy duty equipment.
- Heavy industrial applications in steelworks, refineries chemical plants and electroplating works.
- Under plate grouting to substantial structural elements.
- Rail track applications, to support heavy cranes, or on transporter rails.
- Structural infill where very high strength is required.
- Anchoring of steel bar with concrete.

ADVANTAGES

- Cost effective - high early strength gain promotes minimum downtime and early commissioning of plant.
- User friendly - simple, full pack mixing to ensure that the performance characteristics are achieved
- Excellent durability - high compressive, flexural and tensile strengths ensure a long working life.
- Excellent in service performance - non-shrink capability ensures full surface to surface contact.
- Versatile - suitable for a wide range of loading situations including repetitive dynamic loads.

STANDARD COMPLIANCE

ASTM C 905, ASTM C 882, ASTM C 531, ASTM C579, ASTM C 307, ASTM C 580, ASTM D 570, DIN 18555 PART 8 & ASTM C 267

PRODUCT DATA

Form	Epoxy resin and quartz aggregate Component
Colour	Yellowish gray (mixture)
Packing	30 Kg Set (A+B+C)
Consumption	2.0 Kg/m ² / mm
Layer Thickness	10 to 100mm
Shelf Life	12 months indoor (At a temperature between +5°C to +30°C)

TECHNICAL SPECIFICATION

Test Name	Standard	Average Result
Density	DIN 18555 PART-2	2.00 ± 0.10 g/cm ³
Bond Strength	ASTM C 882	20 ± 1 MPa
Coefficient of linear Thermal Expansion	ASTM C 531	15 x 10 ⁻⁶ °C ⁻¹
Compressive Strength 7 days	ASTM C 579	80 ± 3 N/mm ²
Tensile Strength 7 days	ASTM C 307	15 ± 1 MPa
Flexural Strength 7 days	ASTM C 580	114 ± 2 MPa
Compression Creep resistance @ 2.8 MPa Load @ 4.1 MPa Load	ASTM C 1181	3.6 x 10 ⁻³ cm/cm 4.5 x 10 ⁻³ cm/cm
Water Absorption	ASTM C 413	0.0%
Working Time	DIN 18555 PART 8	< 85 min
Resistance to chemical Distilled water HCL (3%) NaOH (3%)	ASTM C 267	Resistant
Abrasion Resistance	ASTM D 4060	70 mg

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Ver 01/21

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APPLICATION PROCEDURE

Clean the concrete, removing any loose material, laitance, grease and oil. Fix standard formwork ensuring that the area is grout tight. The metal surfaces should be grease and oil free and any rust or paint should be removed by grit blasting or wire brushing.

Pour the hardener into the base can and mix thoroughly for 3 minutes. Pour the mix into a suitable clean tub and add the filler gradually whilst mixing with a slow speed drill and paddle. Alternatively use a mechanical mixer for 2 to 5 minutes until a consistent grout is obtained. Pour the grout quickly into position.

When pouring the grout, ensure that sufficient grout is available to maintain a grout head until the pour is complete. Grout is poured from one side to avoid air entrapment. Rods and Plungers may be used to facilitate placement.

When working on open area and in large grout pours additional aggregates of size 3/8" dry, clean and of good quality may be added. The proportions are dependent on gap dimension and mix consistency requirement, a maximum of 10 Kg of these aggregates can be used per pack of **EPO DUR 1042 BZ**. The strengths obtained are generally higher by about 5-10%.

Note: For vertical substrate applications as a mortar 6Kg of **EPO CARB** to be added to one full set of **EPO DUR 1042 BZ** to obtain a non-sag consistency and increase adherence. Recommended thickness is 3mm to 15mm.

POST PLACEMENT PROCEDURE

Do not wet cure **EPO DUR 1042 BZ**. It is a chemical curing material. All surfaces, equipment, and tools may be cleaned with lacquer thinner, ketones, or similar solvent before grout hardens.

In-service operation may begin immediately after minimum required grout strengths have been achieved. Final finishing of exposed surfaces is aided by applying a very light mist of solvent just before material becomes unworkable.

PRECAUTIONS

CLEANING

Spillages should be absorbed with sand or earth etc. and disposed in accordance with local regulations.

FIRE RESISTANCE

The product is not flammable but will burn in a fire.

HEALTH AND SAFETY

EPO DUR 1042 BZ should not come in contact with skin and eyes or be swallowed. Avoid prolonged inhalation of vapours. Some people are sensitive to epoxy resins, therefore, protective gloves, goggles and barrier cream should be used. Ensure adequate ventilation and if working in enclosed areas, suitable breathing apparatus must be used. If mixed resin comes in contact with skin, it must be removed before hardening with a resin removing cream followed, by washing with soap and water. Contamination of skin by non-resin based products should be removed immediately with soap and water. Should accidental eye contamination occur with any of the above products, wash well with plenty of clean water and seek medical advice. If swallowed, seek medical attention immediately. Do not induce vomiting.



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