

Hydrapox 124

CEMKRETE

High performance, epoxy resin grout & paste, suitable for use at high chemical resistant & vibration machine base application

Innovative products for your success

Uses

Applications include heavy duty supports beneath crane and transporter rails, high speed turbines and centrifuges, drop forges, reciprocating machinery and other operating or test equipment subject to heavy dynamic or repetitive loads. Therefore an epoxy grout and paste where the mechanical properties and heat resistance of the hardened grout must be of the highest order.

Advantages

- Suitable for use in high temperature operating environments with continuous service temperatures up to 150 C.
- High flexural strength and adhesion to substrate ensure excellent performance under dynamic load situations.
- High early strength performance allow minimum down time and early commissioning of plant.
- Simple mixing properties ensure a convenient application and total bearing support.
- Withstands attack by a wide range of chemicals, acids and alkalis.
- Epoxy resin adheres to contact surfaces with no loss of bond.
- High compressive and tensile strengths ensure durability and long term service.
- Designed for low creep characteristics under sustained loading and elevated temperatures.
- Pre-measured, factory controlled materials allow reproducible flow and mechanical properties.

Description

Hydrapox 124 is a solvent free epoxy resin based product designed for grouting or being used as steel plate adhesive for gaps of widths from 10 mm to 120 mm particularly and where high service temperatures are present. The components of Hydrapox 124 are supplied in the correct mix proportions designed for whole pack mixing so that flow, adhesive bonding and mechanical properties are consistent.

Physical Properties : at 25°C

Pot life :	~ 1 hours @ 25°C
Tensile strength :	36 N/mm ² at 7 days
Flexural strength :	25 N/mm ² at 7 days
Compressive strength :	80 N/mm ² at 1 day 95 N/mm ² at 3 days 100 N/mm ² at 7 days
Shear strength :	20 N/mm ² at 7 days
Service temp. :	-10°C to 150°C

Instruction for use

Preparation

- All surfaces are to be grouted out should be sound, clean and dry.
- Concrete surfaces should have a light steel-trowel followed by a fine hair-broom or breaking surface area (rough) or equivalent finish which is dry and free of dust, oil and other contaminants. All high spots should be removed.
- Moss and lichen must be removed physically followed by treatment with fungicidal wash to kill any spores and inhibit further growth. After treatment wash down thoroughly with clean water and allow to dry.
- All metal surfaces should be made clean of paint, oils, rust and other contaminants. Abrade to expose bright metal then wipe clean with solvent prior to priming.

Under-plate grouting & Gap filling

The unrestrained surface area of the grout must be kept to a minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring or patching side and 25 mm on the opposite side. Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

Formwork

The formwork should be constructed to be leak proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. For grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this feeding hopper should be used - please consult your local Cemkrete office for more details.

Foundation surface

This must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes of fixing pockets must be blown clean of any dirt or debris. Base plate if delay is likely before placing steel base plates, it is recommended that the underside and edge are coated with Cemflor Primer 500 to prevent rust formation and ensure bonding with the Hydrapox 124.

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Mixing

The entire contents of the hardener can should be poured into the base container and mixed until homogeneous and consistent paste grout is formed. Place the mixed base and hardener into a suitable force action mixer making sure that the entire volume is poured in. Add the aggregate and mix for 2-3 minutes or until uniform colour is achieved. Once mixed, the material must be used within the specified pot life. After this time, unused material will have stiffened and should be discarded.

Note: All surfaces must be dry prior to placement.

Placing

Ensure that the grout can be placed or patching application within its pot life. Continuous grout flow is essential. Sufficient grout must be available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one.

Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times, so that a continuous grout front is achieved.

Cleaning

All tools and equipment should be cleaned with solvent immediately after use.

Limitations

Application should not commence if the temperature of the substrate is below 5°C.

Health and safety

Some people are sensitive to epoxy resin so gloves and a barrier cream such as Kerodex 71, Rozalex 9, Debba-Wet Work or similar should be used when handling these products. If contact with the resin occurs, it must be removed before it hardens with a resin removing cream such as Kerocleanse 22 or Rozalex 42. Follow by washing with soap and water. DO NOT use solvent. The use of goggles is recommended but should accidental eye contamination occur, wash thoroughly with plenty of clean water and seek medical treatment immediately.

Storage

Maximum 2 years in sealed container kept under shed area.

Packing

3 parts (A=Base + B=Hardener + C=Filler) 10 kg/set

Hot weather working

Whilst the performance of Hydrapox 124 at elevated temperatures is assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperatures above 35°C, the following guidelines are used:

- (I) Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (II) Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- (III) Try to eliminate application in the middle of the day, and certainly avoid applications under direct sunlight.
- (IV) Ensure that there are sufficient operatives available to complete application within the material's pot life.

Technical support

Cemcrete offers comprehensive technical support, including help at the design stage, advice on application and on site problems problem solving. Specifiers and contractors are encouraged to contact our trained staff or required any further information please contact Cemcrete office.

Additional Information

Cemcrete manufactures and supplies a wide range of those complementary products which includes:

- Waterproofing membranes & waterstops
- Joint sealants & filler boards
- Cementitious & epoxy grouts
- Specialized flooring materials
- Fireproof coating and systems
- Concrete admixture
- Repairing material

For further information on any of the above, please consult your local Cemcrete office - as below.

Important Note: Cemcrete warrants its materials free of manufacturing defects and produced as per standard specifications and sold under the terms and conditions of usages, whilst Cemcrete endeavors to ensure that any advice, recommendation, or information, given through its products literatures are reflects of the R&D in-house lab test and practical sites experience and knowledge based feed backs, however, the products are being used under various conditions and applied beyond its control where or how either directly or indirectly at various locations and places at a different stages that of an intended purposes and uses. Therefore, Cemcrete cannot hold warranty or responsible for resultant consequences, such as damages to the property or assets but the product itself.