



## Hydrapox 119

### *Fast-setting Epoxy Resin for Grouting and Patching*

#### **Description**

Hydrapox 119 is a solvent free, epoxy 2-component fast curing high resistance to chemical attack. Very high compressive, flexural and tensile strengths. May be added in the desired quantities for the stiffness required.

#### **Object**

- For repairs to concrete structures, vertical and horizontal where high strength is required, such as damaged edges, holes, pile caps, runways and aprons at air-ports, factory floors, bridge-decks and tunnels, etc.
- As a grouting material for fixing and fastening of anchor-bolts, support plates, machine foundations, bridge-supports, etc.

#### **Advantage**

- May be applied on wet or damp structures
- Very high mechanical strength.
- As a bonding agent Hydrapox 119 will form a completely sealing water-proofing membrane both for capillary water rising from below up through concrete and for water seeping in from above. It further seals and protects underlying layers from oil penetration as also ingress of any other chemicals and thus protecting structural concrete in concrete floors from damages of alien chemicals entering from floor-surface

- Economical as it may be mixed with sand fillers in proportions from 3 parts sand and up to 10 times in relation to epoxy amounts (A+B) depending on objects and circumstances at site
- When used for repairing pile-caps that break during pile-driving, minimum down-time as sufficient compressive strength achieved within 15-20 minutes after application to allow pile driving to be continued.
- Shrinkage free
- Resistant to oil, water and most chemicals including moderately aggressive chemicals
- Easy workability

#### **Instruction for Use**

- Ensure that repair areas are clean and free from oil, laitance and any loose particles
- Mix together completely components A+B as supplied from containers, using a slow-rotating electric drill (600 rpm) with suitable paddle attached for about 4-5 minutes. Then add in sand slowly, approx. 3 to 5 kg of sand per 1 kg of epoxy (A+B) while continuing to mix with drilling machine.
- Substantially much higher amounts of sand may be used (up to 6-7 kg filler per kg of epoxy). Such mixes will be very stiff and with some reduction in compressive strengths and other such characteristics

- Always use the full amount of materials (Part A+B) when mixed together
- Do not dilute with any solvents

### **Characteristics**

Compressive strength :	1,400 ksc
Tensile strength :	220 ksc
Flexural strength :	480 ksc
Bonding strength	
To Concrete :	> 35 ksc
To Steel :	90 ksc
Pot life :	15 min.
Setting Time :	25 min.
Density :	1.02 kg./L.

### **Storage**

In unopened packs, Hydrapox 119 has a shelf life of at least 12 months when stored in warehouse conditions below 35 °C. It should, however not be stored at very low temperatures, to guarantee a good working consistency.

### **Mixing Ratio**

Patching - A : B : Sand = 5 : 1 : 7 By Wt.

Grouting - A : B : Sand = 5 : 1 : 3 By Wt.

### **Packing**

6 kg./Set

### **Cleaning**

Mixing and application implements must be cleaned immediately after use with Xylene and at intervals during application. Cured material can only be removed mechanically or by burning off.

### **Precaution**

Hydrapox 119 can cause an allergic reaction after prolonged contact with sensitive skin. Therefore avoid contact with skin and use protective ointment. Rubber gloves and protective clothing are recommended. After contact with skin wash immediately with plenty of water and soap. Do not use solvents. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. Ensure good air circulation in the room

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