

## MEGAPOXY P1

### GAP FILLING EPOXY PASTE ADHESIVE FOR CIVIL ENGINEERING USE

MEGAPOXY P1 is a two component epoxy paste based on DGEBA epoxy resin and carbonate free filler. Easy to use, this product sets after mixing with excellent properties for a wide range of applications.

### RECOMMENDED APPLICATIONS

#### BONDING

Precast concrete articles  
Metal to metal or concrete  
Grouting bolts  
Natural stones  
Bricks and ceramics  
Bonding compressed cement sheet

#### FILLING & REPAIRS

Concrete pipes and tanks  
Fibreglass articles  
Concrete floors and stairs  
Concrete column  
Insitu formed concrete  
Flush-filling countersunk screws in fibre cement sheet

### CHARACTERISTICS

Simple 1:1 mix ratio  
Creamy texture, blends easily  
Non-sag on vertical & overhead surfaces  
Adheres and cures under adverse conditions (cold & damp)  
Good strength retention after prolonged immersion in water  
Very high strength permanent bonds  
Tensile and compressive strengths superior to concrete  
Excellent chemical resistance

### AVAILABILITY

MEGAPOXY P1 is available in 4 Litre & 20 Litre kits. Shelf life of unopened kits is 2 years minimum. The product should be stored in a cool, dry place.



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## PRODUCT SPECIFICATION

	PART "A"	PART "B"
Colour	White	Black
Consistency	Thixotropic paste	Thixotropic paste
Flash point	Above 130°C	Above 100°C

## SURFACE PREPARATION

METALS : Metals should be grit blasted to clean surface. If this is not possible, mechanically abrade to clean bright metal surface and degrease by flooding the abraded surface with Megapoxy Thinners. Wire brushing is not entirely satisfactory and gives minimal adhesion only.

CONCRETE : Concrete should be free from grease and oil. If necessary, clean with industrial heavy duty degreaser. When clean, remove surface laitence. This is best done by mechanical abrasion such as scabbling, grit blasting or grinding. If this is not possible acid etching must be carried out. Mix concentrated hydrochloric acid with equal volume of water and spread at the rate of 0.5 litre per square metre of concrete surface. Allow to react for about 10 minutes and wash the area thoroughly and scrub with a stiff bristled broom to remove loose sand. Allow to dry for 24 hours. For maximum adhesion concrete should be dry.

PAINTED SURFACES : Steps should be taken to remove all paint.

Metals : Good quality paint stripper should be used, followed by grit blasting

Concrete : the surface may be either flame-cleaned, or mechanically treated with a scutching tool. Complete the preparation by grinding or scabbling

## PROCESSING DATA

Mixing Ratio : 1 part "A" to 1 part "B" by volume  
Mixing : Mix until uniform grey  
Usable life at 25°C : 60 minutes  
Minimum cure time : 24 Hours at 25°C  
Full cure time : 4 Days at 25°C  
Minimum recommended application temperature : 10°C

### MIXING PRECAUTIONS

It is essential that the correct mixing ratio be used and that the part "A" and part "B" are thoroughly mixed together before use. Inaccuracies and poor mixing will result in lower physical properties of the cured system and, if the error is sufficiently large, the system may not cure satisfactorily and discolour on aging.

### TYPICAL CURED PROPERTIES

Tensile strength	: 45 MPa
Tensile shear strength	: 14 MPa
Compressive strength	: 80 MPa
Flexural strength	: 18 MPa
Modulus of elasticity	: 2,000 MPa
Maximum operating Temperature	: 80°C
Density	: 1.45 kg per litre
Dielectric strength 50Hz @ 25°C (Kv/cm)	: 190

### CLEANING UP

To keep mixing implements and working tools clean, use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene. For further details refer to Safety data sheet.