

Rapid set epoxy gel adhesive

Summary	<p>Megapoxy PF Gel is a structural rapid set epoxy adhesive which sets in five minutes and attains more than half its ultimate strength within 15 minutes of mixing. Megapoxy PF Gel “hardens-as-you-hold-it” for immediate on the spot emergency repairs to timber, natural stone, fibreglass, concrete structures etc.</p> <p>Megapoxy PF Gel is also widely used for natural stone and timber laminations.</p>
Characteristics	<ul style="list-style-type: none">• Smooth and easily workable• Simple 1:1 by volume mixing ratio• Sets in 3 minutes at 25°C - 90% cure within 1 hour at 25°C• Very high strength permanent bonds• Tensile and compressive strength superior to concrete• Excellent chemical resistance• Can be lightly machined after 60 minutes cure at 25°C• Can be coloured with oxides
Typical cured properties	<p>Tensile strength: 25 MPa Tensile shear strength: 10 MPa Flexural strength: 18 MPa Compressive strength: 2000 MPa Modulus of elasticity: 65 MPa Coefficient of linear expansion (mm/mm/°C x 10⁻⁶): 40 Water absorption - ASTM D570 - 10 days at 25°C: 0.5% by weight Dielectric strength 50 HZ at 25°C (Kv/cm): 190</p>
Surface preparation	<p>Surfaces to be bonded must be clean and free from dust and oil. For detailed instructions on preparation of surfaces for bonding refer to Bulletin “Application Guide for Civil Engineers”.</p>
Instructions for use	<p>Mixing ratio by volume</p> <ul style="list-style-type: none">- Part A: 1 part- Part B: 1 part <p>Mixing: Mix until uniform Working time (pot life): 3 minutes at 25°C Minimum application temperature: 10°C Minimum cure time: 7 minutes at 25°C Maximum cure time: 6 minutes at 25°C</p>
Availability	<p>MEGAPOXY PF Gel is available in 1, 4 & 20 litre kits. Shelf life of unopened kits is 2 years minimum.</p> <p>The product should be stored in a cool, dry place.</p>

MEGAPOXY PF GEL

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.

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.

Technical service

All purchasers of MEGAPOXY products are invited to avail themselves of our technical service on epoxy base materials. The methods and systems outlined in this bulletin are the best available at the present time, however continual research and development is being carried out and could result in change without prior notice.

Please do not hesitate to contact us, for any additional information.