

# BluRez Epoxy 480

## PRECISION EPOXY GROUT

BluRez Epoxy 480 is a two component epoxy liquid which requires only mixing to form a high strength anchoring and grouting mortar. BluRez Epoxy 480 is also available with extended work time and low exotherm (480UT).

BluRez Epoxy 480 is used for structural anchoring of bolts, inserts and reinforcement. Deep foundation grouting, transport and crane rail anchoring/grouting, high strength support of rotating machinery, support of mobile equipment, precision grouting of mining equipment and structural concrete repairs.

### Advantages

- Excellent flow properties
- Low exotherm
- Extended work time
- Non shrink for maximum bearing area
- Resistant to a wide range of chemicals
- Deep pours and high temperature applications

### Preparation

Concrete should be at least 28 days old. All defective host substrate must be removed prior to application. Defective material includes cracked or structurally weakened surfaces and also chloride contaminated and carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications. Host concrete must be roughened and aggregate exposed to ensure good bond. High pressure water blasting or shot blasting of the surface is recommended for this purpose. All surfaces must be free of dust, oils and surface contaminants. This may require steam cleaning or high pressure water blasting if site conditions permit.

### Mixing

BluRez Epoxy 480 is supplied in precisely proportioned packaging ready for mixing. It is critical to the successful use of this product that part portions are not mixed. Add the two components together being sure to add the complete proportion of Part B to Part A. Mix together using a slow speed mixer (400rpm) for at least 3 minutes or until a uniform mixture is achieved.

### Application

BluRez Epoxy 480 may be poured or pumped into place. Check formwork for leaks prior to mixing and application of grout. Do not exceed the maximum application thicknesses specified in this data sheet. Consult Bluey for further information about aggregate addition for large volume pours.

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### Product Data

Please refer to Important Notice on following page

<b>Packaging</b>	15 litre kit
<b>Work Time</b>	30 minutes (BluRez Epoxy 480) 5 hours (BluRez Epoxy 480UT) 10 minutes (BluRez Epoxy 480 Express)
<b>Curing Time</b>	12 hours @ 25°C
<b>Compressive Strength</b>	100MPa (BluRez Epoxy 480) 98MPa (BluRez Epoxy 480UT) 20MPa @ 2hours (BluRez Epoxy 480 Express) 100MPa Ultimate (BluRez Epoxy 480 Express)
<b>Compressive Modulus</b>	4.1GPa
<b>Tensile Strength</b>	25MPa (BluRez Epoxy 480) 29MPa (BluRez Epoxy 480UT) 25MPa (BluRez Epoxy 480 Express)
<b>Build Scope</b>	Up to 50mm (BluRez Epoxy 480) Up to 150mm (BluRez Epoxy 480UT)
<b>Solids Content</b>	100%
<b>Maximum Operating Temperature</b>	85°C
<b>Acclimatisation</b>	Store BluRez Epoxy 480 between 20°C - 25°C in a shaded area at least 24 hours before application (if components are above 30°C, the resulting mix will have a shortened working life)
<b>Aggregate</b>	Aggregate requires temperature conditioning. Hot aggregate will reduce work time, cold aggregate will reduce flow. However cold aggregate can extend work time in hot weather applications. Please check with Bluey the aggregate type and application proportions required
<b>Shelf Life</b>	12 months

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### Contact Bluey

#### HEAD OFFICE QLD

1300 0 BLUEY | [qld@bluey.com.au](mailto:qld@bluey.com.au)

[bluey.com.au](http://bluey.com.au)

#### NSW

[nsw@bluey.com.au](mailto:nsw@bluey.com.au)

#### VIC

[vic@bluey.com.au](mailto:vic@bluey.com.au)

#### SA

[sa@bluey.com.au](mailto:sa@bluey.com.au)

#### WA

[wa@bluey.com.au](mailto:wa@bluey.com.au)

#### TAS

[tas@bluey.com.au](mailto:tas@bluey.com.au)

#### ACT

[act@bluey.com.au](mailto:act@bluey.com.au)

#### NT

[nt@bluey.com.au](mailto:nt@bluey.com.au)

#### NZ

[nz@bluey.com.au](mailto:nz@bluey.com.au)

#### UK/EUROPE

[bluey@bluey.ie](mailto:bluey@bluey.ie)

#### ASIA PACIFIC

[sales\\_sg@quicseal.com](mailto:sales_sg@quicseal.com)

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