



GENERAL PURPOSE EPOXY GROUT

GENERAL DESCRIPTION

ALPHATEC 800 is a high performance aggregate filled epoxy grout with superior mechanical and chemical properties. This grout material was specifically formulated to support heavy machinery, thus ensuring the correct transfer of static and dynamic loads into the concrete foundation. It is widely used in repair work, and for new installations. ALPHATEC 800 is chemically stable to 150°C, but good engineering practice suggests limiting the actual service temperature to something less than this maximum.

FEATURES

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|---|-------------------------------|
| 1. Cures within 48 hours in most conditions | 3. Minimal shrinkage on cure |
| 2. Excellent physical properties | 4. Oil and chemical resistant |

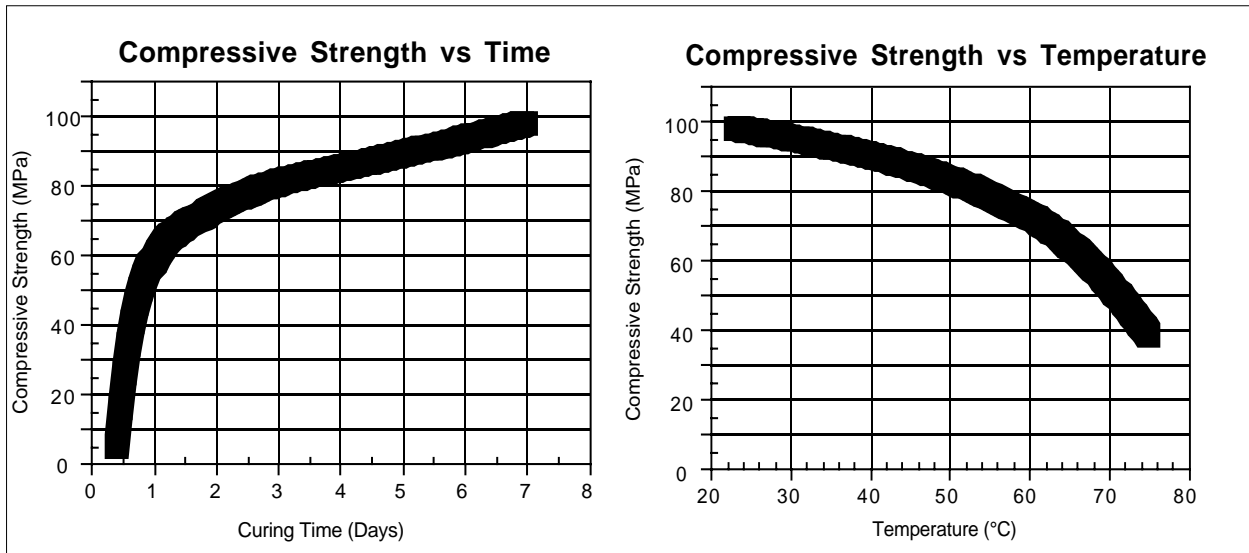
HANDLING PROPERTIES

[All test data at 23°C (±2°C) unless otherwise stated]	Liquid	Hardener	Mixed
Viscosity at 23°C (ASTM D 2393):	1,200 cps	350 cps	750 cps
Specific Gravity (resins only):	1.12	1.00	1.10
Average Density (with aggregate):			2.14
Mixing Ratio (by weight):	100	43	
Mixing Ratio (by volume):	100	50	
	Temp	Time	
Pot Life (ASTM D 2471) in mins at:	23°C	60	
	10°C	90	
Gel Time (ASTM D 2471) in mins at:	23°C	110	
	10°C	150	
Working time (ASTM C 308) in mins at:	23°C	60	
(mixed with aggregate)	10°C	90	

CURED PROPERTIES

[All specimens conditioned for 7 days at 23°C, and all tests carried out at 23°C (±2°C), unless otherwise stated]	SI Units MPa (GPa)	Metric kg/cm²	Imperial psi
Compressive Strength (ASTM C 579 B):	115	1,170	16,600
Compressive Modulus (ASTM C 579 B):	(10.8)	110,000	1,564,000
Flexural Strength (ASTM C 580):	32.0	326	4,600
Flexural Modulus (ASTM C 580):	(10.1)	103,000	1,465,000
Tensile Strength (ASTM C 307):	19.3	197	2,800
Tensile Bond Strength (to steel):	19.0	194	2,750
Shear Bond Strength (to steel):	35.0	357	5,050
Shrinkage on cure (ASTM C 531):		0.00025 mm/mm	
Coefficient of Thermal Expansion (ASTM C 531):		3.6x10 ⁻⁵ /°C	2.0x10 ⁻⁵ /°F
Compressive Creep (ASTM C 1181):		0.0027	24 hours
		0.0038	1 year
		0.0041	10 years

GRAPHIC INFORMATION



PACKAGING & YIELD

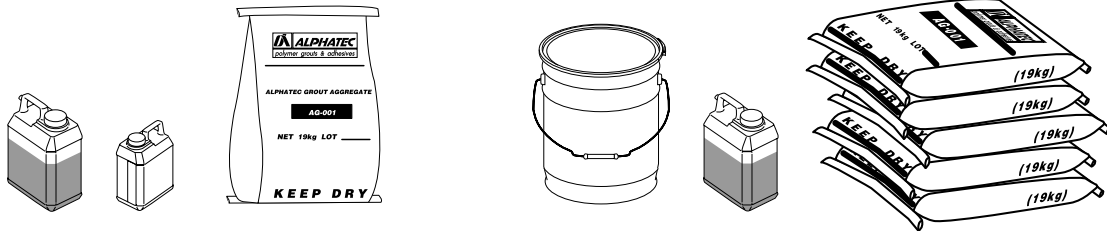
ALPHATEC 800 is packed in units yielding 10 or 50 litres. 100 x 10 litre, or 20 x 50 litre, units will therefore be needed for one cubic metre (1m³) of grout material. The components are pre-measured, and should normally be used as a unit. Aggregate volume can be adjusted to some extent to obtain optimum flowability at the jobsite.

10 litre Unit

Liquid: 1 x 1.8 kg in 2 litre bottle
 Hardener: 1 x 0.78 kg in 1 litre bottle
 Aggregate: 1 x 19.0 kg in multiwall paper bag

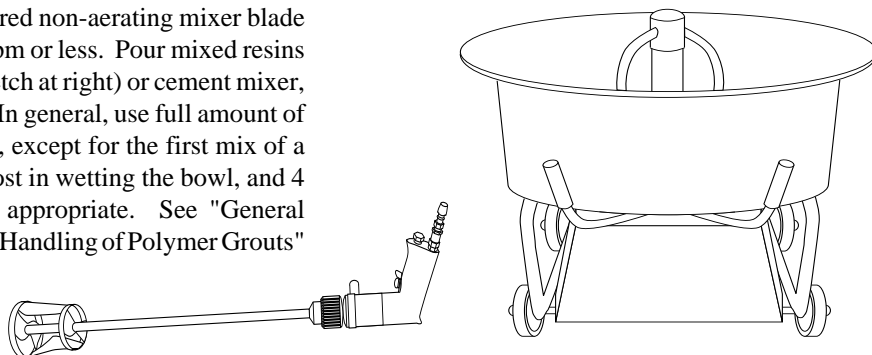
50 litre Unit

Liquid: 1 x 9.0 kg in 15 litre plastic pail
 Hardener: 1 x 3.9 kg in 4 litre plastic bottle
 Aggregate: 5 x 19.0 kg in multilayer paper bags



MIXING & HANDLING

Use full amount of hardener and mix for at least 1 minute with an air or electric powered non-aerating mixer blade (see sketch below) at 500 rpm or less. Pour mixed resins into a mortar mixer (see sketch at right) or cement mixer, and add aggregate slowly. In general, use full amount of aggregate (5 bags per unit), except for the first mix of a batch when some resin is lost in wetting the bowl, and 4 to 4.5 bags will be more appropriate. See "General Instructions for the Use and Handling of Polymer Grouts" for more details.



In the interests of continually upgrading and improving the product, Alphatec Engineering reserves the right to change these specifications without notice.



FOR MORE INFORMATION CONTACT
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