



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 insuring the correct transfer of static and dynamic loads into the concrete foundations. It is widely used in repair work, and for new installations. ALPHATEC 800 has a maximum working temperature limitation of 70°C.

FEATURES

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| 1. Excellent creep resistance | 3. Minimal shrinkage on cure |
| 2. High physical properties | 4. Oil and chemical resistant |

RESIN SYSTEM PROPERTIES

Viscosity at 23°C (cps):	Liquid	Hardener	Mixed
Specific Gravity:	1,300	140	
Mixing Ratio (by wt):	1.15	0.95	1.10
Mixing Ratio (by vol):	100	43	
	100	50	
	Temp	Time	
Pot life in mins at:	23°C	35	
	10°C	80	
Gel Time in mins at:	23°C	65	
	10°C	130	
Working Time at: (mixed with aggregate)	23°C	60	
	10°C	90	
Shrinkage on cure (with aggregate)	0.00025 (mm/mm)		

CURED PROPERTIES

[All test data at 23°C (74°F) unless otherwise stated.]	SI	Metric	Imperial
	MPa (GPa)	kg/cm²	psi
Compressive Strength (ASTM C 579 B):	100	1,020	14,500
Compressive Modulus (ASTM C 579 B):	(10.8)	110,000	1,564,000
Flexural Strength (ASTM C 580):	26.1	265	3,700
Flexural Modulus (ASTM C 580):	(10.1)	103,000	1,465,000
Tensile Bond Strength (to Steel):	19.3	197	2,800
Shear Bond Strength (to Steel):	37.9	386	5,490
		cm/cm	in/in
Coefficient of Expansion (ASTM C-531):		0.000036/°C	0.00002/°F
Creep under load: 24 hrs		0.0027	0.0027
1 year		0.0038	0.0038
10 years		0.0041	0.0041
[Creep testing is done with a constant load of 600 psi (42 kg/cm²) @ 140°F (60°C)]			

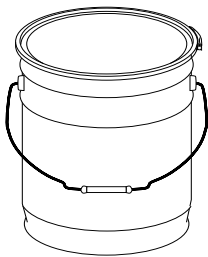
GRAPHS



PACKAGING

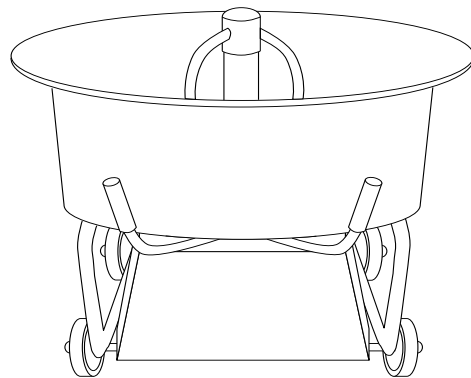
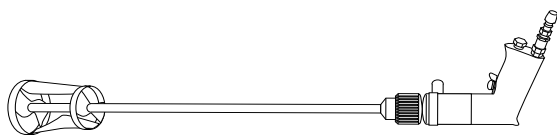
ALPHATEC 800 is packed in a unit yielding 50 liters. The components are pre-measured, and should normally be mixed as a unit. Aggregate volume can be adjusted to some extent to obtain optimum flowability at the jobsite.

- Base: 1 x 9.0 kg in 15 liter plastic pail
- Hardener: 1 x 3.9 kg in 4 liter plastic bottle
- Aggregate: 5 x 20.0 kg in waterproof paper bags



MIXING & HANDLING

Use full amount of hardener and mix for at least 2 minutes with an air or electric-powered Jiffy mixer operated at 500 rpm. Pour mixed resin into the mortar mixer, and add aggregate slowly. Use full amount of aggregate (5 bags per resin unit), except for the first mix of the batch when some resin is lost in wetting out the mixer bowl, and a half to one full bag less may be appropriate. See "General Instructions for the Use & Handling of Polymer Grouts" for further details.



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



Alphatec Holdings Pte Ltd

Alphatec Holdings licenses several Alphatec Engineering group companies in specific markets to manufacture and sell the Alphatec range of epoxy grouts and adhesives. For more information contact your local supplier, or email "info@alphatec-engineering.com"