

Epoxy Grout 7042

High Early Strength Flowable Epoxy

Grouts



Key Features

- High early strength – 80 MPa in 3 hours at 20°C
- High flow, pourable consistency for good bonding and penetration
- Tough, durable 100% epoxy
- 100% solids - Negligible shrinkage
- Resistant to vibration and cyclic loading



Typical Properties

Appearance	Part A: Off White thixotropic liquid Part B: Amber Liquid Mixed: Off White
Viscosity	Flowable, pourable
Solid Content By Weight	100%
Tensile Strength	32 MPa approx.
Compressive Strength	95 MPa approx.
Flexural Strength (Static)	50 MPa approx.
Flexural Modulus (Dynamic)	7 x 10 ³ MPa
Tensile Bond Strength (Concrete)	Concrete Substrate Failed at Ultimate Load
Service Temperature	-10°C to + 85°C
Glass Transition Temp (T_g)	68°C
Tans Delta (δ)	85°C
Working Time (Pot Life)	30 - 40 mins @ 25°C
Mix Ratio	5:1 (part A:B) by volume
Mix Ratio	10:1 (part A:B) by weight
Min. Application Temp.	5°C
Max. Application Temp.	35°C
Density	1.7 kg/Litre
Full Cure	7 days at 25°C
Dielectric Strength (IEC 60243-1)	22 kV/mm
Dielectric Constant	4.2 (100Hz, 20°C)
Volume Resistance	1.8 x 10 ¹⁵ Ωcm
Thermal Conductivity	0.48 W/mK

Advantages

- High early strength
- Excellent flow properties
- Electrical insulator
- Tough, resistant epoxy
- Strong bond
- Negligible shrinkage

Recommended Applications

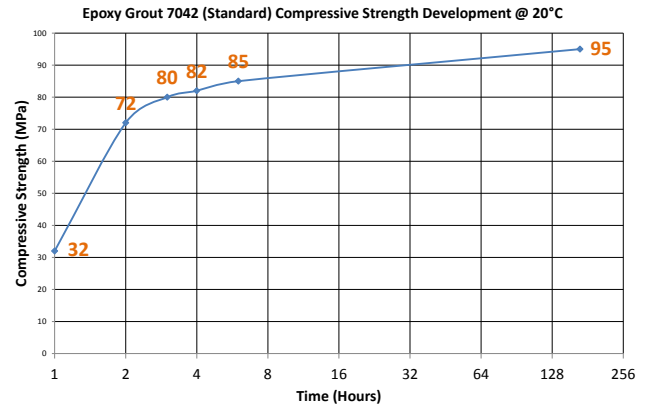
- Filling gaps under base plates
- Filling gaps under concrete panels
- Filling grout tubes
- Grouting bridge beam supports
- Filling under machinery baseplates
- Anchoring rod & bar into concrete
- Grouting supports for rails
- Bonding new to old concrete

Epoxy Grout 7042				Related Items
Order No.	Pack Size	Order Qty	Colour	Mixing Paddle
EP7042L3	3 Litre Kit	1	Off white	SSMP
EP7042L13	13 Litre Kit	1	Off white	LSMP

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High Early Strength Flowable Epoxy Grout

Compressive Strength Gain



Typical Properties of Epoxy Grout 7042 mixed with FillersFG™

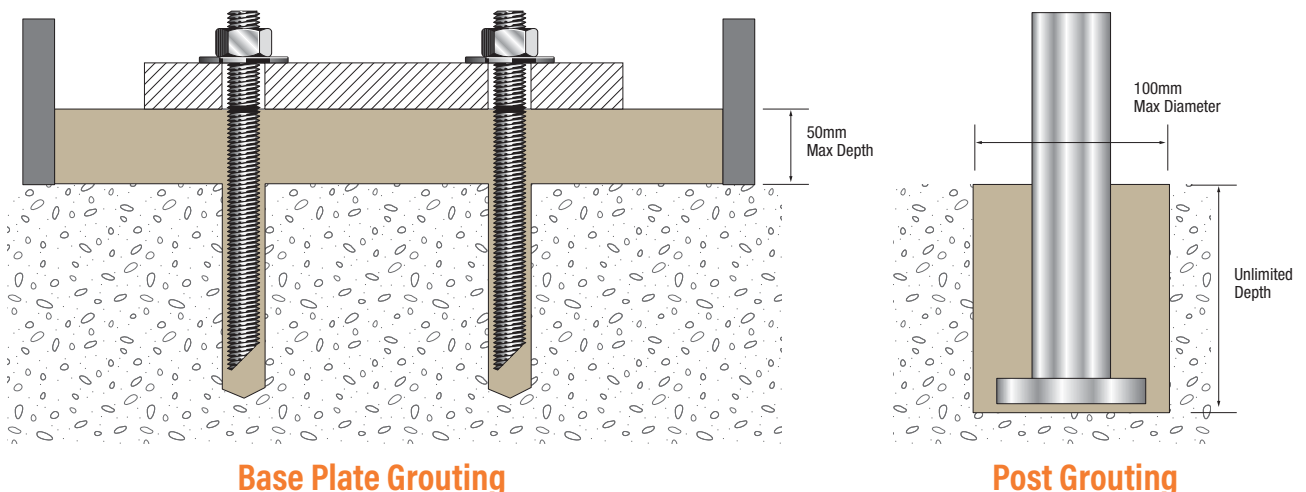
Consistency	Volume of Epoxy Grout (Litres)	Weight of Fillers FG (Kg)	Yield of Mixture (Litres)	Pot Life @ 20°C (Minutes)	Compressive Strength @ 7 days (Mpa)
Fluid	1	0.5	1.2	45	81
Pourable	1	1.0	1.4	55	84
Trowellable	1	2.5	1.9	75	85
Dry Pack	1	4.0	2.5	-	-

Recommended Epoxy Grout Hold Down Bolt & Reinforcing Bar Installation Guide

Parameter	Minimum	Maximum
Drilled Hole Diameter Threaded Rod, d_h	Rod / Bar diameter (d_b) + 2 mm	$2 \times d_b$
Drilled Hole Diameter Reinforcing Bar, d_h	$d_b + 5$ mm	$2 \times d_b$
Effective Hole Depth, h	$8 \times d_b$	-
Critical Edge Distance, e_c	$3 \times h$	-
Critical Anchor Spacing, a_c	$6 \times h$	-
Depth of Concrete Substrate, b_m	$1.25 \times h$	-

More information on Anchoring Technology can be found in the Ramset™ "Specifier's Resource Book". Contact Ramset™ the concrete anchoring experts for a copy or contact your local Ramset™ Engineer.

Typical Grouting Detail - Epoxy Grout 7042



Base Plate Grouting
(For Depths > 50mm, refer to Epoxy Grout 7042LE overleaf)

Post Grouting

Refer to Technical Data Sheet and MSDS available from www.ramset.com.au, for precautions and further detailed installation instructions