

Compilation date: 10/10/2016

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DESCRIPTION

Macsim® Super Load 585 Pure Epoxy Resin is a two component chemical anchoring injection system, in 3:1 ratio. A formulation derived from pure epoxy with very high bond strength, developed principally to anchor threaded rods and rebar into concrete. Used for high performance structural applications where loading is critical.

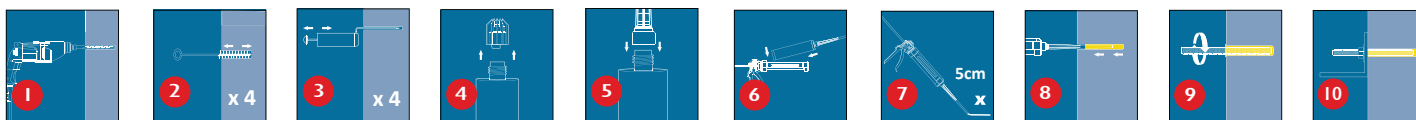
FEATURES

- Suitable for high loads featuring large diameters and deep embedments.
- Longer working times make it suitable for large holes, and high temperatures.
- No shrinkage, good for large diameter testings.
- Use in wet or flooded environments and fixing holes or underwater.
- High durability, resistance to chemicals.
- Used for diamond drilled holes.
- Solvent free resin.
- Fixings in concrete, wood, or other high strength materials.

RECOMMENDED USE

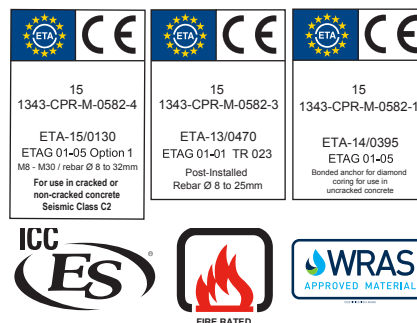
Ideal for anchoring threaded rod and rebar in concrete.

APPLICATION INSTRUCTIONS



APPROVALS/ CERTIFICATIONS/ TESTING

- 15/0130 - ETA Option 1 Cracked Concrete / TR029 / TR045 / C2 Seismic.
- Includes flooded holes, and wet and dry concrete conditions.
- 13/0470 - ETA TR023 Post Installed Rebar Installations.
- 14/0395 - ETA for Diamond Drilled Holes.
- CE Certified 1343-CPR-M-582-1/3/4 - MPA Darmstadt
- ICC-ES Approval ESR 3853 Cracked and Uncracked 2012,2009,2006 IBC & IRC compliant.
- F240 Fire Test Report iBMB MPA & CSTB Report 26059195 for 8 to 32mm Ø
- Complies with highways Agency Interim Advice Note 104/15.
- WRAS Approved for use with Potable drinking water* approval no. 1309522.
- LEED tested 2009 EQ c4.1 SCAQMD rule 1168 (2005.)
- VOC A+ Rating (Volatile Organic Content).



PROPERTIES

Colour	Light Red or Grey
Density	1.42 kg/l
Compressive Strength	120 N/mm ² (EN 196 Part 1)

WORKING & HARDENING TIMES

Base Material Temperature	5°C	15°C	25°C	35°C	40°C	35°C
Gel Working Time (minutes)	120	60	25	16	10	3
Curing Time Dry Concrete (Mins.)	3000	1200	480	240	150	20
Curing Time Wet Concrete (Mins.)	x 2	x 2	x 2	x 2	x 2	x 2

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TYPICAL TENSILE PERFORMANCE - STANDARD EMBEDMENT DEPTH

Concrete, C20/25, 5.8 Grade Studding						
Size	Recommended Load		Spacing ($S_{cr,N}$)	Drill Hole Ø	Fixing Hole Ø	Setting Depth
	Tension (N_{rec})	Shear (V_{rec})	(mm)	(mm)	(mm)	(mm)
M8	9.07	5.14	160	10	9	80
M10	14.36	8.57	200	12	12	90
M12	20.86	12.00	240	14	14	110
M16	38.86	22.29	320	18	18	125
M20	60.64	34.86	400	24	22	170
M24	87.43	50.29	480	28	26	210
M30	133.33	81.43	600	35	32	280

STORAGE & SHELF LIFE

This product should be stored between +5°C & +25°C.

Avoid Direct Sunlight

The Shelf life of the product is 24 months from the manufacture date.

HEALTH & SAFETY

First Aid: SWALLOWED: If conscious, give half a litre of water to drink immediately. Do not induce vomiting. Consult a doctor SKIN: Wash immediately with plenty of soap and water. Remove all contaminated clothes and footwear immediately unless stuck to skin. EYES: Bathe the eye with running water for 15 minutes. Consult a doctor. INHALED: Move to fresh air in case of accidental inhalation of vapours. Consult a doctor.

Contact a doctor or poisons information centre (Phone Australia 13 11 26; Phone New Zealand 0800 764 766)

Safety: Keep out of reach of children. Read label before use. Use only outdoors or in a well-ventilated area. For further health and safety information, consult the latest safety data sheet.

PACKAGING

Available in 585ml Cartridge.

Product Details: 71SL585 (585ml)

DISCLAIMER

The information in this Technical Data Sheet (TDS) is based on our present knowledge to the date of the publication. However, this shall not constitute a guarantee for any specific product features and shall not establish a ;legally valid contractual relationship. It is only a guide for safe handling, use, storage, transporting and disposal of the product.

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