

DESCRIPTION

Macsim® Ultrabond is a two component chemical anchoring injection system. A formulation derived from epoxy acrylate resin with high bond strength, developed principally to anchor threaded rods into concrete. Used widely for medium to high loads in both horizontal and vertical applications.

FEATURES

- Suitable for high loads within standard annulus and embedments.
- Fast working times for early loading in time sensitive applications.
- No styrene allows for use indoors and in enclosed spaces.
- Use in damp & wet environments and fixing holes.
- Good durability formulation, resistance to chemicals.
- Used for studs and relatively small diameter rebar.
- 10:1 resin available in a variety of cartridge types.
- Fixings in concrete, wood, or other high strength materials.

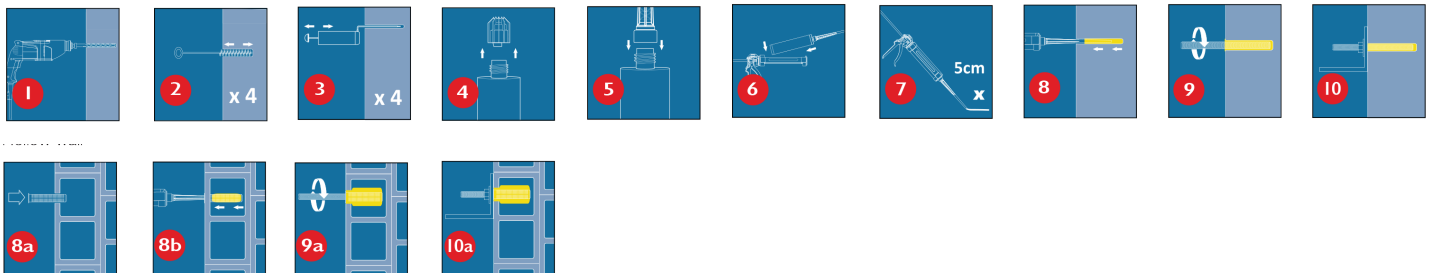
RECOMMENDED USE

Developed to anchor threaded rods into concrete, and for masonry and hollow wall installations. Used widely for medium loads in both horizontal and vertical applications.

APPLICATION INSTRUCTIONS

1.

Solid substrates



APPROVALS/ CERTIFICATIONS/ TESTING

- 11/0031 - ETA ETAG 029 Hollow Wall / Masonry Installations.
- CE Certified 1404-CPR-2587 - ZAG, Solvenia.
- ITB Approval (Poland) 0974/W
- Tested by Imperial College, London.
- WRAS Approved for use with Potable drinking water* approval no. 1605529.
- LEED tested 2009 EQ c4.1 SCAQMD rule 1168 (2005.)
- VOC A+ Rating (Volatile Organic Content)



PROPERTIES

Colour	Grey
Density	1.56 kg/l
Compressive Strength	45 N/mm ² (EN ISO 604)

TYPICAL TENSILE PERFORMANCE - STANDARD EMBEDMENT DEPTH

Concrete, C20/25, 5.8 Grade Studding						
Size	Recommended Load		Spacing (S _{cr,N})	Drill Hole Ø (mm)	Fixing Hole Ø (mm)	Setting Depth (mm)
	Tension (N _{rec})	Shear (V _{rec})				
M8	9.07	5.15	160	10	9	80
M10	14.36	8.57	200	12	12	90
M12	17.11	12.00	240	14	14	110
M16	24.78	22.29	320	18	18	125
M20	38.15	34.86	400	24	22	170
M24	48.57	50.29	480	28	26	210
M30	66.50	81.43	560	35	32	280

WORKING & HARDENING TIMES

Base Material Temperature	-10°C	-5°C	5°C	15°C	25°C	35°C
Gel Working Time (minutes)	50	40	20	9	5	3
Curing Time Dry Concrete (Mins.)	240	180	90	60	30	20
Curing Time Wet Concrete (Mins.)	x 2	x 2	x 2	x 2	x 2	x 2

STORAGE & SHELF LIFE

This product should be stored between +5°C & +25°C. Avoid Direct Sunlight. The Shelf life of the product is 18 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. Consult a doctor. 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 300ml & 410ml cartridge

Product Details: 71UB300 (300ml); 71UB410 (410ml)

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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