

TECHNICAL DATA SHEET

My-T-Bond® 1107

Acrylic Adhesive

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METLOK PRIVATE LIMITED
(An ISO 9001 Certified Company)
W-27, M.I.D.C. Industrial Area
Kalmeshwar – 441 501, Nagpur

Product Description

My-T-Bond® 1107 is a two component solvent free reactive acrylic adhesive for bonding of metals and plastics. Bonds produced with My-T-Bond® 1107 possess high impact strength and have a good moisture resistance. My-T-Bond® 1107 come as a two part system and applied in 1:1 ratio by volume using common double cartridges.

Benefits

- ❖ Short Pot life.
- ❖ Fast Curing Grade.
- ❖ High Bond Strength.
- ❖ Solvent Free.
- ❖ Excellent Gap Filling Property.

Physical Properties

Technology	:	Acrylic
Chemical type	:	Methacrylate
Appearance		
Component A	:	Dark Straw
Component B	:	Straw Colored
Specific Gravity (Resin)	:	1.0
Specific Gravity (Hardener)	:	1.0
Viscosity@ 25±2 °C, Brookfield DV II +Pro,		
Spindle no. 3, Speed 20 r.p.m.		
Component A	:	2000 - 3500 cP
Component B	:	700 - 1200 cP
Cure	:	Room
		Temperature
Service Temperature	:	-40 to 120 °C
Mix ratio by weight	:	1 : 1
Pot life (15gm mix)	:	3-5 min.
Initial Strength	:	10 min.
Final Strength	:	12 hrs.
Hardness, Durometer- Shore	:	68
D, ASTM 2240		

Adhesive Properties of Cured Material

Tensile Strength, ASTM D 897, N/mm²
After 24 hrs. @ 25±2 °C

Steel	:	17 - 25
Aluminium	:	5 - 10
Copper	:	7 - 17

Lap Shear Strength, ASTM D 1002, N/mm²
After 24 hrs. @ 25±2 °C

Steel	:	23 - 30
Aluminium	:	5 - 10
Copper	:	7 - 17
ABS	:	Substrate Failure

Application Information

1. All surfaces should be clean and free of contaminants.
2. Apply the adhesive to the more difficult-to-bond surface. In general, hard, smooth surfaces are more difficult to bond than rough, porous surfaces.
3. "Set-time" varies depending on application temperature, amount of adhesive applied, type of substrate and ambient temperature conditions.
4. Mate the surfaces to be bonded as quickly as possible after adhesive has been applied for optimum bond strength.
5. Use firmest pressure practical for object being bonded. Do not move or adjust surfaces after contact has been made, as inferior bond strength will result.
6. Typically, a properly formed Acrylic adhesive bond will achieve 50% of its strength after 10 minute and 100% after 12 hours.

Storage and Handling

My-T-Bond® 1107 (A & B) shall be ideally stored in a cool, dry location at 25±2°C.

Shelf Life : 6 months @ 25±2°C

Note

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METLOK PRIVATE LIMITED

(Bonding and Sealing Solutions)

An ISO 9001: 2015 Certified Company

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