(Previously known as Aluminium Putty Special F)

FASMETAL 10 (HVAC) PRODUCT BULLETIN

Product Description

An aluminium filled high, strength bonding, patching and sealing product that bonds to aluminium and other metals, ceramics, wood, concrete or glass. Fasmetal 10 is ideally suited for air conditioning repairs.

Features and benefits

- Bonds to aluminium and other metals, ceramics, wood and concrete
- Conveniently packaged in 184 gm tube kit

Recommended Applications

- Sealing leaks in pipes and tanks
- Repairing copper coils in compressors
- . Repairing holes in aluminium and other metals
- Refrigeration repairs

Typical Physical Properties: Cured 7 days @ 24ºC	
Colour	Aluminium
Mixed Viscosity	Paste
% Solids by Volume	100
Mixing Ratio (resin to hardener)	Weight or volume 1:1
Cured Density ASTM D792	1.7 gm/cm^3
Cure Shrinkage ASTM D2566	0.001 cm/cm
Work Time of 100 gms @ 24°C	60 minutes
Compressive Strength ASTM D695	58 MPa
Adhesive Tensile Shear ASTM D1002	17.2 MPa
Cured Hardness Shore D ASTM D2240	85
Dielectric Strength ASTM D149	3937 volts/mm
Coverage	232cm^2/184gm @ 5mm
Temperature Resistance	Wet 43°C Dry 120°C

Chemical Resistance: 7 days room temperature cure (30 days immersion @ 24°C)

10% Sulphuric Acid	F	Toluene	F
10% Hydrochloric Acid	VG	Ammonia	VG
Chlorinated Solvent	F	10% Sodium Hydroxide	VG
Methanol	U	Kerosene	VG

KEY: VG = Very Good F = Fair U = Unsatisfactory

Epoxies are very good in water, saturated salt solution, leaded gasoline, mineral spirits, ASTM#3 oil and propylene glycol. Epoxies are generally not recommended for long-term exposure to concentrated acids and organic solvents.

PLEASE CONSULT TECHNICAL SERVICE FOR OTHER CHEMICALS

Surface Preparation

Proper surface preparation is essential to the success and performance of any epoxy application. In all cases, the application surface should be clean, dry, free from oils, and rough.

- Remove all oils, dirt and grease by means of a strong cleaner/degreaser (Devcon Cleaner Blend 300 is suitable for this process).
- Roughen the surface by grit blasting (8-40 mesh grit) or grinding. A 75-125 micron profile is desired for most applications.
- All abrasive preparation should be followed by another cleaning to remove any remnants from that process.
- Ideal application temperature is 13-32°C. Under cold conditions, heating the repair area to 38-40°C is recommended.
- Add hardener to resin and mix thoroughly with a putty knife until a uniform, streak free consistency is obtained (about 4 minutes).

Mix Ratio – Resin to hardener: Weight 1:1 by weight or volume

- Spread mixed material over the repair area and work firmly into the substrate to ensure maximum surface contact.
- To bridge large gaps or holes, use fibreglass tape, expanded metal or mechanical fasteners.

Cure:

- Working time is 60 minutes @ 24ºC
- Functional (75%) cure is achieved in 16 hours @ 24ºC
- For maximum physical properties, heat cure for 4 hours @ 90ºC after curing at room temperature for 2 1/2 hours.

Precaution

Use in accordance with Material Safety Data Sheet.

Warranty: Devcon will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Warning: For industrial use only.

ORDERING INFORMATION

Stock No.	Unit Size
19770	184 gm

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ITW Polymers & Fluids
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