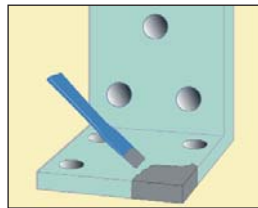


Product data

701

Steel filled epoxy paste



General description

This is a multi-purpose, two-part epoxy containing a high steel particle content. It can make tough, permanent repairs and be successfully applied to metal, ceramics, concrete, wood and some thermosetting plastics.

AJett 701 has a 1:1 mixing ratio, spreads easily and will fill large and small gaps whether on horizontal or vertical surfaces. When fully cured, conventional metalworking techniques can be used to file, drill, tap, machine, sand and paint it.

Benefits

- Contains 40% steel particles – when cured, can be treated like steel.
- Versatile – can be used on virtually any surface, whether vertical or horizontal.
- Good at filling gaps.
- Spreads easily.
- Can be shaped to the required profile.
- Simple preparation – 1:1 mixing ratio.
- 30 minute working time allows for repositioning.
- Multiple layers can be laid to build up a substantial thickness of material.
- Does not shrink.
- Cures to a permanently hard surface.
- Has excellent chemical resistance.
- Cures to a metallic, steel finish.

Can be used on

- Metals.
- Ceramics, including porcelain.
- Concrete.
- Wood.
- Some thermosetting (rigid) plastics, including acrylics, Bakelite, Perspex, ABS, unplasticised PVC and melamine and urea formaldehydes. *Avoid* polymers with a waxy surface, e.g polyethylene, polypropylene or nylon

Typical uses

- Filling holes and cracks.
- Repairing broken or damaged parts such as castings, low pressure pipes, valves, tanks, fabrications and wood and metal fittings.
- Repairing worn parts, including shafts, housings, keyways and flanges.
- Repairing cast steel plates.
- Rapid, small scale repairs to metal components.
- Levelling machinery.
- Making templates.

Application

- Mix equal parts of hardener and resin – just enough for the job in hand – and apply with a spatula. Working time is 30 minutes at 20°C. Allow two hours before handling and 24 hours for full cure at room temperature. For advice on building multiple layers, please contact our technical services department.

Technical data

Composition	Steel filled epoxy resin
Physical appearance	Paste (uncured); solid (cured)
Colour	Dark grey when cured
Odour	Typical epoxy (uncured); none (cured)
Mixing ratio	1:1 By weight and volume
Working time at 20°C	30 minutes
Initial set at 20°C	1 hour
Handling time at 20°C	2 hours
Full cure 20°C	24 hours
Application temperature	5 to 35°C
Service temperature	-20 to +120°C Continuous without load -20 to +150°C Intermittent without load -20 to +60°C Continuous subjected to load
Lap shear, 4 mm bond line	8 N/mm² (ASTM D 1002)
Compressive strength	60 N/mm² (ASTM D 695M)
Maximum thickness in one pass	<12 mm
Cured Shore D hardness	80
Yield	510 ml/kg

All performance figures quoted after seven days cure at 20°C using grit blasted mild steel.

Packaging

2 x 250g tubs. Catalogue number **701/250**. Other sizes available to order.

Shelf life

Two years in normal storage conditions (dry, room temperature) and in closed original packaging. To avoid contamination, do not return unused product to containers.

Precautions for use

Irritant. Please refer to the **AJETT** material safety data sheet *MSDS 701*

Application method

AJETT 701 works best on clean parts – i.e dry and free of grease, oil and dust etc. Lightly abrading the substrate surface(s) prior to cleaning will improve performance. Mix equal amounts of product with a spatula until even in colour – a minimum mixing time of three minutes is recommended to obtain best results. Use a spatula to apply; remove excess material before the paste has cured. To achieve a gloss finish, smooth the surface

immediately after application with a knife moistened with a solvent such as acetone or white spirit. AJett 701 will start setting within an hour at 20°C, depending on volume – the greater the volume (or higher the temperature), the faster it will set. It can be drilled, tapped, filed or sanded to shape and painted after 24 hours.

NOTE: Data provided shows mean averages arrived after laboratory testing. Manufactured batches may vary slightly.

This publication is intended to serve as a guide only. Customers should satisfy themselves by appropriate trials that the product is suitable for its intended use.

The information is given in good faith and based on the state of our knowledge about the product – but cannot be used as a sales specification.

The attention of users should be brought to eventual hazards arising from the use of the product if they differ from what it was originally formulated for.

The customer will agree and accept our general sales and supply condition, in particular the cause of limitation and relief of responsibility.

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