FAMOUS SPECIALITY CHEMICALS

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Product: FSC Flexibond

Two Component epoxy adhesive having features like High strength, Fast curing, Medium viscosity, Fibre toughened, High gap filling, Good mechanical properties, Excellent insulating properties, Multipurpose adhesive.
When cured, it bonds with Metals, Composite materials, Ceramics, PCB, Stone, marble & granite, Wood, Engineered wood.

Technology: Epoxy
Colour: Off white to cream
Appearance: Flow able liquid
Component: Two Component
Curing: Room Temperature

Recommended use for:

- High strength general purpose bonding
- Electronics coil encapsulation
- Electronics component/assembly
- Wood joint filling/ Furniture works
- Marble/ Stone joining & art work
- Toys bonding
- Repair & maintenance work
- Bison pane

1. Technical Data

FSC Flexibond - Part A - Physical Properties (Uncured material)

Colour: Translucent/ Hazy
Viscosity: 22000 to 25000 (mPa s @ 25°C)
Density: 1.1 (gm/cc)
Consistency: Flow able gel

FSC Flexibond- Part B - Physical Properties (Uncured material)

Colour: Yellow to amber
Viscosity: 60000 to 80000 (m Pa s @ 25°C)
Density: 0.99 (gm/cc)
Consistency: Flow able gel
Mixing Ration: 100: 80 by Weight (+/- 2)
A + B Mixed Viscosity: 45000 to 50000

2. Physical properties (Cured material)

Cured finish: Smooth glossy
Density: 1 (gm/cc)
Hardness @ (25°C): 70 (+/- 5)
Lap shear strength: >120 Kg/cm2 (MS Lap shear – ASTM D1002)
Temperature Range: - 40 to 125°C
Water absorption: 0.05% (168hr @ 25°C)
Shrinkage: <0.5%
Elongation: 5 to 8 %
Pot life: (min) 20 min.
Handling time: (hr) 6 to 8 Hrs (@ 30 to 35°Cel)
Dielectric strength: 18 KV/mm (IEC 60243)
Volume resistivity @500 V DC: 1014 (IEC60455-2)
Dielectric constant @ 30 V/1khz: 3.4 (IEC60455-2)
Track resistance: >600 Volts (IEC60112)

Recommended Cure Schedule

6 to 8 hrs.@ 30° to 35 °Celsius OR 2 hr @ 60°C. Actual schedule & temperature may vary depending on part geometry, part mass & product configuration. (Recommended to conduct trial & validation on specific component.)

3. Application Instructions

1. Clean Part, should be free from dust, oil, grease (if any) mould release agent and all other contaminants.
2. Mix part A & B as per recommended ratio & stir gently.
3. Apply/dispense mixed adhesive on complete bonding area/ surface.
4. Apply clamping pressure 8 to 10 kg.
5. Keep bonded part under pressure for curing.
6. Please see material Safety Data Sheet (MSDS) for proper handling & Disposal instructions.

Pack Size – 1.8 Kg Kit

Disclaimer – (Important)
The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application are for product information purpose and are based on our knowledge and experience of the product as on the date of this TDS. The product can have a variety of different applications as well as different working conditions in your environment that are beyond our control. **Famous Speciality Chemicals** therefore is not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.
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