



JEM Resin









JEM Resin was developed to meet the growing concerns regarding exposure to isocyanates in the workplace. JEM is a non-isocyanate system with all the technical performance characteristics of conventional resins but with additional features and benefits.

Features and benefits

- Isocyanate Free
- Low viscosity (very searching, no voids, easier mixing)
- Easy mixing at low ambient temperatures (e.g. -15°C)
- Curing reaction not sensitive to moisture (will cure under water)
- Filled joints may be energised immediately if undisturbed
- Supplied in clear pouches which allows mixing to be observed in process
- Excellent adhesion to XLPE, PVC, Lead etc.
- Type approved in LV joints (ENA TS C81/3 and BS EN 50393).
- Tested in accordance with HD631.1







Performance Data

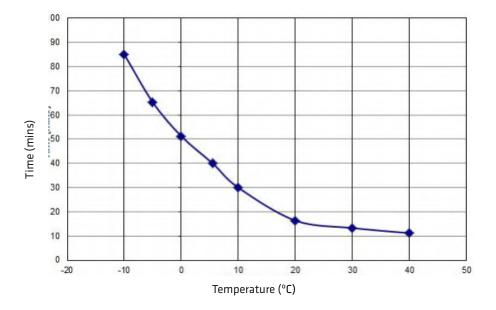
Properties of Resin		
1	Туре	Low hazard, isocyanate free
2	Appearance/colour	Grey/brown fluid when mixed
З	Viscosity of mixture @ 25°C	2000 mPa.s
4	Relative density	2.0 g/cm ³ @ 25°C
5	Flash point	>110°C
6	Non-volatile content	85%
7	Storage conditions	Away from direct sunlight, <50°C
Application Properties		
1	Mixing ratio - (by weight)	5.6 powder: 1 liquid
2	Flash point	>110°C
	Pot life	16 mins @ 5°C
3		5 mins @ 40°C
4	Gel time	15 mins (0.5 litre @ 25°C)
5	Peak exothermic temperature (0.5 litres)	35°C @ 5°C 70°C @ 40°C
6	Complete cure time	24 hours @ 25°C
Performance Properties		
1	Colour of mixture	Grey/Brown
2	Class of resin	Methacrylate
_	Water absorption rate	0.011% @ 24 hrs, 25°C
3		2.1% @ 42 days, 50°C
4	Hardness	50 Shore A
5	Volume shrinkage after curing	<1.0%
6	Tensile strength	1.5 MPa
7	Ultimate elongation	15%
8	Impact strength	No break
_	Volume resistivity	5.0 x 10 ¹³ Ω.cm @ 20°C
9		7.4 x 10 ¹¹ Ω.cm @ 90°C
10	Surface resistivity	1 x 10 ¹³ Ω
11	Dielectric strength	9.3 kV/mm
12	Thermal conductivity	1.31 W/m.K
13	Maximum continuous operating temperature	95°C
14	Time to energise LV joints (undisturbed)	Immediate
15 Other Ir	Time to energise LV joints (backfilled or moved)	2 hrs
Other Information 1. Shelf life of the material if stored at a maximum continuous. Two years from date of manufacture (as indicated on		
1	Shelf life of the material if stored at a maximum continuous temperature of 35°C, in original packaging and away from direct sunlight	Two years from date of manufacture (as indicated on product label)
2	Expected service life time of joint	Life of cable



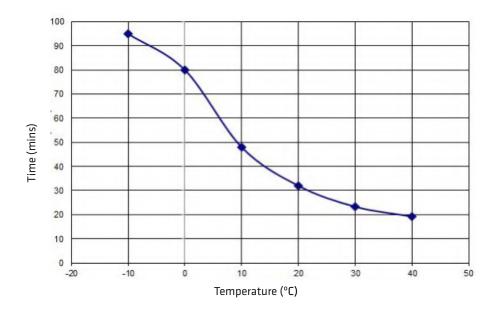




Temperature effect on gel time



Temperature effect on backfill time









Mixing Instructions

