RESIN PACK 2B

(Complies with latest BT Specification M218C)

Resin Pack 2B is a two component polyurethane compound specifically formulated for use in the construction of horizontal and vertical air blocks in pressurised telecommunication cables.

This product is supplied as a composite pack containing:-

Base component: 266ml (280 grams)

Hardener component: 134ml (160 grams)

The hardener contains 4,4' Diphenylmethane Diisocyanate . It does **NOT** contain any free **PHENOL** or **DDM** and therefore does not require a **TOXIC** "skull and crossbones" label.

The base material is free of **COAL TAR** and is therefore now unclassified.

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RESULTS OF RESIN PACK 2B (TAR FREE)
TESTED AGAINST BT SPECIFICATION M218C

Clause	Test	Spec. Requirement	Results
4.1.1.	Mixing Time	Resin shall be mixable with 2 minutes @ 20°C and 5 minutes @ 5°C.	Mixable within 2 minutes at either temperature.
4.1.2.	Stress Cracking	Neither component shall cause stress cracking of polyethylene.	Neither component causes stress cracking of polyethylene.
4.1.3	Phenyl Isocyanate Concentration	Phenyl Isocyanate shall be less than 0.01%.	Phenyl Isocyanate concentration is less than 0.0005%.
4.2.1.	Viscosity	Viscosity shall be between 1000 and 4000 cps and maintained for 60 minutes after mixing.	Viscosity remains between 1000 and 4000 cps for 60 minutes.
4.2.2.	Gel Time	Gel time shall be between 60 and 100 minutes @ 23°C.	Gel time is 90 minutes.
4.2.3.	Max Temp Reached During Cure	Not to be greater than 120°C.	80°C
4.2.4.	Volume of Resin after Mixing	Volume of contents of one pack after mixing shall be 400 $\pm$ ml.	Volume after mixing is 400 ml.
4.2.5.	Stress Cracking	Mixed material shall not stress crack polyethylene.	No stress cracking.
4.2.6.	Cure	Must cure within 5 hours @ 20°C and 24 hours @ 5°C.	Cures within 5 hours @ 20°C and 24 hours @ 5°C.
4.2.7.	Volume Resistivity	Volume resistivity to be at least 10 $\log_{10} \Omega$ M	20 $\log_{10} \Omega$ M
4.2.8.	Bond Strength to Aluminium	Tensile bond strength shall be greater then 2kN. Shear bond strength shall be greater than 7.5kN.	Tensile bond strength is 5.1kN. Shear bond strength is greater than 10kN.
4.2.9.	Performance Test	No air loss.	No air loss.

Conclusions

ALH Resin Pack 2B completely fulfils the requirements of BT Specification M218C

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