

2B – Polyurethane Air Block Resin Pack

Product Description

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.

Kit Content

- Base component 266ml (280 grams)
- Hardener component 134ml (160 grams)
- Protective gloves
- Mixing spatula

Application Method

1. First ensure there is good cable separation



2. Clean cable sheathing and fit closure as per manufacturer's instructions.
3. Mix base and hardener together and stir for 2 minutes.
4. Pour mixed resin into injection bottle.



5. Carefully inject the resin using the hand bellows or foot pump.
6. Continue injecting until resin is seen rising up the bleed tube. Fold over the bleed tube and secure with O-clip. Inject more resin until resin flow slows considerably. Always leave at least 25mm depth of resin in the bottle as a reservoir.
7. Remove injection cap and replace with blank cap. Leave undisturbed until the resin has completely cured.
8. Carefully saw through the injection bottle and bleed fitting.

2B – Polyurethane Air Block Resin Pack

RESULTS OF RESIN PACK 2B (TAR FREE)

Test	Specification Requirement	Results
Mixing Time	Resin shall be miscible with 2 minutes @ 20°C and 5 minutes @ 5°C.	Miscible within 2 minutes at either temperature.
Stress Cracking	Neither component shall cause stress cracking of polyethylene.	Neither component causes stress cracking of polyethylene.
Phenyl Isocyanate Concentration	Phenyl Isocyanate shall be less than 0.01%.	Phenyl Isocyanate concentration is less than 0.0005%.
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.
Gel Time	Gel time shall be between 60 and 100 minutes @ 23°C	Gel time is 90 minutes.
Max Temp Reached During Cure	Not to be greater than 120°C.	80°C
Volume of Resin after Mixing	Volume of contents of one pack after mixing shall be 400 + ml.	Volume after mixing is 400 ml.
Stress Cracking	Mixed material shall not stress crack polyethylene	No stress cracking.
Cure	Must cure within 5 hours @ 20°C and 24 hours @ 5°C.	Cures within 5 hours @ 20°C and 24 hours @ 5°C.
Volume Resistivity	Volume resistivity to be at least 10 log ₁₀ Ω M	20 log ₁₀ Ω M
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.
Performance Test	No air loss.	No air loss.

DexGreen Ltd, Unit 2, Pinnacle Business Park, Ballytrasna, Little Island, Co. Cork, Ireland

Tel: +353 21 4317955
Email: sales@dexgreen.com

Fax: +353 21 4316269
Internet: www.dexgreen.com