

SOLVENTLESS TAR EPOXY EPAR 121T

TECHNICAL DATA

1.0 DESCRIPTION

EPAR 121T is a solventless tar modified epoxy which has very good mechanical strength and moderate flexibility.

EPAR 121T has excellent chemical resistance and adhesion to concrete, metal and asphalt.

2.0 PHYSICAL PROPERTIES:

2.1	Viscosity	low – easily poured liquid.
2.2	Mix Ratio	1 : 1 by weight or volume.
2.3	Pot Life	30 minutes at 20°C.
2.4	Minimum Application Temp.	10°C.
2.5	Shelf Life	1 year in original unopened containers.
2.6	Cured Properties	
2.6.1	Colour	Black.
2.6.2	Specific Gravity	1.1
2.6.3	Compressive Strength	41 MPa 1 day, 50MPa 7 days.
2.6.4	Compressive Modulus	0.8Gpa.
2.6.5	Tensile Strength	16Mpa.

3.0 USES

- 3.1 EPAR 121T has excellent compatibility with asphaltic surfaces. It may be used as a coating onto which grit or aggregate is bonded to form a skid resistant wearing course. EPAR 121T is also recommended for mixing with a silica aggregate to form a trowellable mortar, it is ideal as a levelling material for asphaltic surfaces.
- 3.2 EPAR 121T may be used as a chemically resistant coating for bitumen and concrete surfaces, against acids, oils, fats etc.
- 3.3 The combination of flexibility and hardness make EPAR 121T suitable as a joint filler where a small amount of movement is expected, e.g., expansion joints in concrete slabs.
- 3.4 EPAR 121T mixed with silica aggregate has proven to be an excellent expansion joint nosing material for bridges.

4.0 APPLICATION INSTRUCTIONS

- 4.1 SURFACE PREPARATION. Thoroughly clean the jointing surfaces of all extraneous matter, especially oil and grease. Laitance should be removed from concrete surfaces mechanically or by acid etching. For best results steel surfaces should be prepared by sand blasting or grinding.



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EPAR 121T

TECHNICAL DATA Continued

- 4.2 **MIXING.** Accurately proportion required volume of resin and hardener ensuring this amount can be used within its pot life. Mix thoroughly, preferably using a paint stirrer fitted to a low speed electric drill. During the mixing process scrape the bottom and sides of the container at least once with a spatula or similar tool to ensure all components are incorporated. Mixing should continue for approximately 5 minutes. Take care to avoid air entrapment. When EPAR 121T is to be mixed with aggregate, resin and hardener should first be mixed as above. Aggregate to be added to the epoxy must be completely dry. Blend in sufficient aggregate to obtain the desired viscosity and mix until an even texture is obtained.
- 4.3 **APPLICATION.**
- 4.3.1 **Non-Skid Surfacing.** Apply EPAR 121T at a coverage rate of 2m² per litre, by brush, roller broom or spray. If the non-skid aggregate is larger than 5mm a lower coverage may be required. Evenly broadcast the non-slip particles onto the surface and do not expose to traffic until epoxy has cured.
- 4.3.2 When EPAR 121T is mixed with more than 3 parts aggregate to 1 part epoxy surfaces to which it is to bond should first be primed with unfilled EPAR 121T. For best results, brush apply a thin coating of EPAR 121T working it well into the substrate. Apply aggregate filled EPAR 121T while the prime coat remains tacky.
- 4.3.3 When trowelling filled EPAR 121T a smooth finish may be obtained by keeping the face of the trowel wet with EPAR Epoxy Solvent.
- 4.4 **CLEAN-UP.** Tools and equipment may be cleaned before hardening commences by washing with EPAR CLEAN UP SOLVENT. Clean hands and skin with soap and hot water.

5.0 PACKAGING

8 lt. Pack (4 litres resin, 4 litres hardener).



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