



E'GRID® GT

Asphalt Reinforcement

INSTALLATION GUIDELINES

RECOMMENDATIONS

1. Apply on a firm, even, dry, dust free swept substrate.
2. If a regulating course is specified, use a mix of 5mm maximum aggregate size
3. Use a 1litre/m² bituminous bond coat If emulsion based, adjust spray rate to take water content into account
4. Make sure the emulsion is sufficiently viscous to avoid run offs
5. Leave sufficient time for the bond coat curing if it is emulsion based
6. Lay a minimum asphalt layer thickness of 50mm in one pass above the grid.

Surface Preparation

The surface onto which the E'GRID® GT is to be laid should be even, dry and free of dust and other loose materials. Cracks wider than 10mm should be filled with a suitable sealant. Finely milled surfaces are acceptable for installation of E'GRID® GT; however, coarse or unevenly milled or broken surfaces should be regulated with a suitable fine (maximum aggregate size: 6mm) sand asphalt mix.

LAYING OF E'GRID® GT

1. **Cut roll to width if required; trim off any twisted filaments on edge and end of roll.**
2. **Unroll the E'GRID® GT, immediately after spraying the bond coat either by hand or mechanically.**
 - By hand onto the sprayed surface. This should involve light tension to ensure that no wrinkles are formed. The E'GRID® GT should be fully bonded by firm brushing with stiff brooms applying a downward pressure on the E'GRID® GT.
 - By mechanical lay down equipment. This should involve the use of a purpose-built lay down frame. It must ensure that the E'GRID® GT is held under tension and is pressed firmly onto the sprayed surface.
 - On curves, E'GRID® GT should be laid as chords. Chord lengths will be dependent on the curve radius.
 - If the grid curls at ends or roll edges, then a nail gun may be required to fix it down locally, particularly in cold weather.
3. **Avoid overlapping E'GRID® GT, on either transverse or longitudinal joints.**
 - On straight sections, butt the adjacent rolls with a maximum joint gap between rolls equal to $\frac{3}{4}$ of the mix aggregate size maximum 15mm
 - Secure the starting end of each roll (in direction of paving) by nailing in place to the surface.
4. **When working on tight curves, it is suggested to**
 - Lay first E'GRID® GT avoiding overlaps and wasteful cuts,
 - Use cut patches' without geotextile backing nailed above E'GRID® GT to join E'GRID® GT individual sheets.
 - Hand placed asphalt may be required on the unbacked E'GRID to avoid bond coat adhesion to construction equipment tyres during overlaying.
 - The longitudinal joints between adjacent lengths should not be coincident with a wheel path, a longitudinal construction joint or a longitudinal crack.
 - Wherever practical, E'GRID® GT should be laid across the entire width of the pavement prior to paving.

TRAFFICKING

Although the grid surface is not intended for trafficking, construction vehicles can be travelled, provided the end corners of the grid have been secured with nails.

PAVING

- Can commence as soon as the bitumen has fully cured and the E'GRID® GT is fully bonded to the pavement.
- If the E'GRID® GT is seen to move or lift during paving then operations must stop and corrective measure taken to prevent this happening by scattering asphalt mix in front of paver wheels.

Consult Polyfabrics Australasia or a certified Engineer for site specific installation instructions. Polyfabrics Australasia reserves the right to change its product specification at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

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