Tensar®

GLASSTEX®PATCH™
ASPHALT REINFORCEMENT SYSTEM

Tensar Glasstex®Patch™ 880 provides quick and easy localised maintenance repairs before paving operations.

Use directly on existing pavements, finely milled surfaces, concrete substrates, for bridging cracks or to reinforce fractured asphalt.

THE CHALLENGE

Local and national highways engineers are constantly challenged with getting better value from tight budgets and reducing road maintenance costs.

With a higher proportion of road maintenance budgets being spent on reactive repairs*, then there is a greater need for engineers to carry out maintenance repairs within budget and with minimised disruption to road users.

INTRODUCING GLASSTEX®PATCH™ 880

Glasstex®Patch™ is a reinforcement composite specifically developed for localised maintenance repairs between milling and paving operations. It can be used directly on existing pavements, finely milled surfaces, concrete substrates, for bridging open cracks or to reinforce fractured asphalt before the new overlay is installed. The composite is designed to inhibit the development of reflective and fatigue cracks.

Potholes and voids due to disintegration of the existing asphalt should be filled and open cracks should also be sealed before applying Glasstex®Patch™ 880. This product is also applicable to the construction of stable, durable asphalt sealing around iron works, where the combination of asphalt, concrete, mortar and iron causes reflective and fatigue cracking.

THE ADVANTAGES OF GLASSTEX®PATCH™ 880

- Easy and fast installation
- No specialist installation required
- No requirement for bitumen tankers or installation plant
- Installed directly on a sound substrate using adhesive coating or heat activation

Glasstex®Patch™ 880 can be applied to most sound substrates utilising the adhesive coating.

- Easily transportable in roll sizes 15.0mL x 1.0mW
- Simple to cut to size on site for awkward areas e.g. around manholes and gullies
- Compatible with tack coat use on uneven substrates e.g. concrete or open texture asphalt
- Compatible with the new asphalt overlay through the quartz sand coating
- Reflective cracking resistant through both stress relief and reinforcement effects
- Provides reinforcement and waterproofing of localised weak spots in a pavement such as service trenches
- Assists with bridging of joints between two pavement structures (i.e. bus lane and pavement)

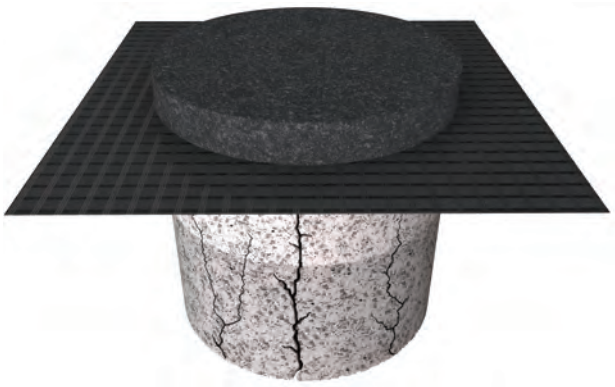
*Source: Annual Local Authority Road Maintenance (ALARM) Survey 2011, AIA

GLASSTEX®PATCH™ 880 PRODUCT INFORMATION

Glasstex®Patch™ 880 consists of a pre-coated glass yarn grid combined with a polymer modified bitumen membrane. The under side of the Glasstex®Patch™ 880 includes a self adhesive coating, while the upper side is treated with a quartz sand protective coating. The adhesive layer is protected during storage by a peel off release film.

Glasstex®Patch™ 880 provides a stress relief action by combining a dense polymer modified bitumen membrane with a coated and protected glass yarn grid asphalt reinforcement overlay.

Most significantly Glasstex®Patch™ 880 does not require specialist installation and can be applied to most sound substrates utilising the adhesive coating. Alternatively the bitumen membrane can be heat activated and softened via the use of a flame torch.



Tensar Glasstex®Patch™ 880 can provide additional support to resist the migration of reflective cracking.

GLASSTEX®PATCH™ 880 TECHNICAL DATA	
Tensile strength after EN ISO 10319 (MD/CMD)	70/114 kN/m
Roll length	15m
Roll width	1m
Unit weight	2000 g/m^2

CASE STUDY: ALBERT ROYDS ROAD, ROCHDALE

The Challenge: Albert Royds Road is a busy, local highway close to the M62 motorway serving both commercial and residential areas of Rochdale, plus the towns and villages beyond. With the need to keep disruption to this important local route to a minimum, contractor Balfour Beatty Civil Engineering were called in to provide a solution to a potential reflective cracking problem and the effects of differential settlement between a rigid concrete bridge deck and a flexible pavement construction.

Glasstex®Patch™ 880 can be installed either between the base and binder course or the binder and surface course.

The Solution: Craig Roberts, Tensar Area Civil Engineer, proposed the use of Tensar Glasstex®Patch™ 880 to inhibit the development of reflective cracking. Pieces of Glasstex®Patch™ 880 were cut to length and rolled out over the problem joints. A thick asphalt overlay of between 100mm and 130mm was placed on top.

Glasstex®Patch™ 880 can be overlaid by either hand or machine lay operations.

Tensar®

Tensar International Limited
Cunningham Court
Shadsworth Business Park
Blackburn BB1 2QX
United Kingdom
www.tensar.co.uk

GLASSTEXPATCH_FLY_09.11