



A9 Road Scotland

THORMAJOINT®

Key Details

Location:

Pitlochry, Scotland

Date:

2021

Product:

Thormajoint®

BJ200 ST

Application details:

Aggregate

- 20 mm BJ Stone

Bridging plate

- 250 mm wide x
3 mm thick
- Aluminium plate

Substrate type

- Hot Rolled Asphalt

The Challenge

The A9, known as the “Spine of Scotland” is the country’s longest road, stretching from Falkirk to Scrabster Harbour and linking Central Scotland with the Highlands. Dating back to the 18th century as part of Scotland’s military road network, it is now a vital route for trade, tourism and daily transport, carrying significant traffic volumes through challenging terrain and climate.

Sections of the route reach elevations of 1,516 feet at the Drumochter summit, resulting in the road being exposed to more extreme temperature fluctuations and weather conditions, intensifying the performance requirements on bridge joint systems.





Site Conditions

Ambient Temperature	11°C
Expansion Gap	20 mm
Joint Width	500-600 mm
Joint Depth	150-400 mm
Joint Length	8 m
Skew Angle	60°

Solution

Thormajoint® BJ200 ST binder was chosen for the two bridge joint installations owing to its proven resistance to deformation and its ability to deliver long-lasting stability for road users. The project presented a particular challenge due to the substantial joint depths, of up to 400 mm of Thormajoint® material. This was addressed by building the joints in stages, using intermediary layers to promote effective binder migration into voids, and to maintain heat within the stone matrix during construction. A final surface dressing was then applied to enhance skid resistance and support safe driving conditions.

Result

The staged installation method ensured full consolidation and structural integrity, resulting in durable and reliable bridge joints capable of withstanding the A9's demanding weather conditions and temperature changes. With improved stability, resistance to deformation, and enhanced surface grip, the completed works provide a long-term solution that supports the safe and efficient movement of vehicles along one of Scotland's most important national routes.



Recycled tyres

in components
boosts sustainability

About Thormajoint® BJ200 ST

A high performance product with a vast temperature range.

- ✓ Suitable in climates with temperatures ranging from -10°C to +50°C.
- ✓ High-temperature flow resistance and low-temperature flexibility.
- ✓ Type-approved and registered with the UK Department of Transport.
- ✓ Low cost, low maintenance solution compared to other joint systems.

UK

info@prismoglobal.com
+44 (0) 1257 225 100

ITALY

vernisolinfo@prismoglobal.com
+39 0377 621250

SOUTH AFRICA

RSAINfo@prismoglobal.com
+27 (0) 11 473 1057

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