



MATRIX 502

Distributed by DS Brown

Matrix 502 is an asphaltic plug joint comprised of specially selected pre-blended aggregate designed to provide a tighter matrix of aggregate than conventional asphaltic plugs. The result is exceptional wear life. Wear life and skid resistance are further enhanced by the Matrix D Type Aggregate used to top dress the joint. Primer is used for improved product adhesion. ***Exclusive to the matrix system is a specially formulated, climate specific binder for cold, moderate and hot climate.***

- Rideability / Smooth-Quiet
- For Asphalt Overlaid Decks
- For Concrete Decks
- 3/4" +/- movement
- No Fabrication
- No Shop Drawings
- Long Lasting



Asphaltic Plug Bridge Joint System
Smooth - Quiet

Smooth - Quiet MATRIX 502

The Matrix 502 Asphaltic Plug Bridge Joint System is primarily composed of Matrix 502 Binder and two grades of Matrix 502 aggregate. Additional components include primer, backer rod, bridging plates and locating pins.

The MATRIX 502 joint is installed in cutouts in the deck surfacing ranging from 2 to 6 inches deep (5 to 15cm) and 20 to 24 inches (51 to 61cm) wide. The joint can be used for both expansion and fixed end joints at abutments or piers in many bridge types. These include concrete slab, concrete beam, prestressed concrete and steel beam, either simple or multi-span. It can also be used as a pressure relief joint on bridge approach slabs, in both new construction or rehabilitation projects. The Matrix 502 Joint can be installed on 30° maximum skews and skews up to 45° in low traffic and can be placed in the deck surfacing layer of either asphalt concrete or Portland Cement Concrete. Completed joints are black in color. Matrix 502 Joints are low cost, quick and easy to install and maintain.

Typical Structures

Concrete Slab
Concrete Beam
Prestressed Concrete
Steel Beam

Simple Span
Multi-Span

Typical Joint

Expansion and Fixed **End** Joints on abutment and piers.

Movement Capacity

Expansion Joints with thermal movement of about 3/4" +/-.

Surfacing

Matrix 502 may be placed within any concrete pavement and asphaltic concrete wearing courses where access is available for the necessary excavation.

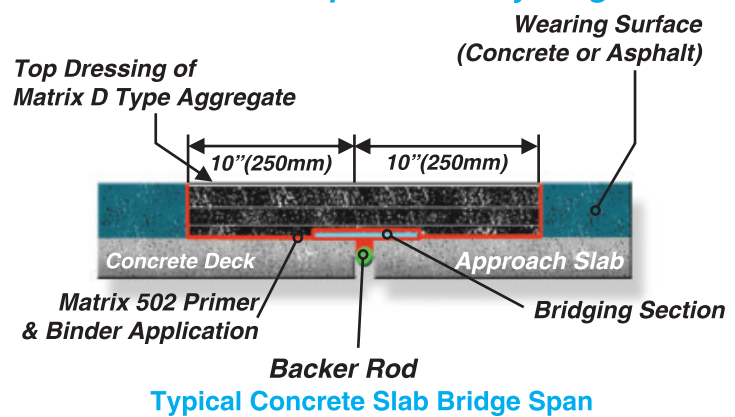
Depth Requirement

Matrix 502 must be placed to a minimum depth of 2" (50mm). Minor scarification of the bridge deck may be necessary in some instances.

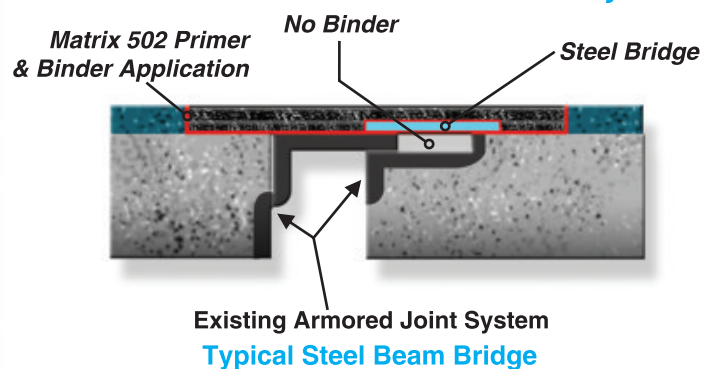
Matrix 502 is an easily adaptable product. Due to its flexible, yet resilient nature, Matrix 502 can be used in the following circumstances:

- **Pressure Relief Joint** on approach slabs.
- **Longitudinal Joint** between two decks to accommodate small live load deflections.

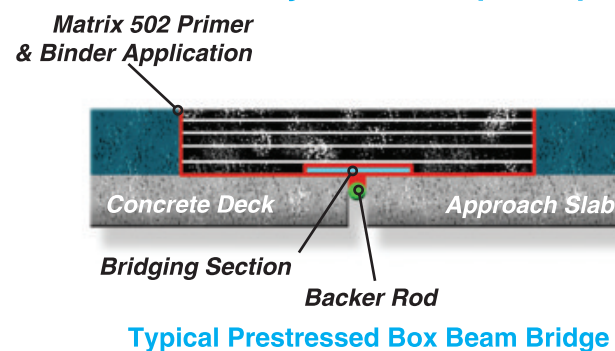
Matrix 502 Proportional Layering



Matrix 502 in a Concrete Overlay



Matrix 502 Layered in Deeper Asphalt



The Matrix 502 Asphaltic Plug Bridge Joint System meets requirements of ASTM D6297, Standard Specification for Asphaltic Plug Joints for Bridges.

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