

## PRODUCT REFERENCE: BP02 BRIDGEJOINT COMPOUND (BJC):

A polymer modified bituminous bridge joint binder, mixed with graded aggregate to form an asphaltic plug joint in asphalt and concrete carriageways in temperate climates.

### PERFORMANCE PROPERTIES:

The BJC system can accommodate a movement range of  $\pm 20\text{mm}$  in a standard APJ installation of 500mm width. The system is resistant to plastic flow at surface temperatures of  $50^\circ\text{C}$  and is a registered binder system for use in Asphaltic Plug Joints (APJ).

APPROVALS: Highways Agency Number 029

### PHYSICAL PROPERTIES:

Density @ $25^\circ\text{C}$	$1.45 \pm 0.05$
Flash Point (COC) $^\circ\text{C}$	$250^\circ\text{C}$
Minimum Application Temperature	$+ 5^\circ\text{C}$ Product
Pouring Temperature	$160 \pm 10^\circ\text{C}$
Maximum Safe Heating Temperature	$185^\circ\text{C}$
Penetration Value @ $25^\circ\text{C}$	$30 \pm 5$ dmm
Flow resistance @ $60^\circ\text{C}/5$ hrs	$\leq 5\text{mm}$
Softening Point R&B $^\circ\text{C}$	$85 \pm 5^\circ\text{C}$
Extension Test @ 3.2mm/per hr	$\geq 50\% @ 2^\circ\text{C}$

### CHEMICAL RESISTANCE:

Bituminous products soften in contact with petroleum solvent and mineral oils. The product has good resistance to dilute acids and alkalis.

### COMPOSITION:

A polymer modified bitumen containing graded extender with adhesion agents.

### STORAGE:

Store in a cool dry place away from direct sunlight.

### GRADED AGGREGATE:

The aggregate should be nominally 20mm (18-20-22) and either Basalt or Granite Type as listed in BS 812.

Where the joint depth is expected to be less than 75mm the aggregate should be a 50:50 blend of 20 & 14mm.

<b>Aggregate Properties:</b>	<b>PSV</b>	<b>55+</b>
	<b>AAV</b>	<b>4 - 6</b>





#### ACUTE HEALTH HAZARDS & ADVICE:

Bituminous products present no acute health hazard at ambient temperature. However, as these materials are normally handled at elevated temperatures when their physical state changes to a liquid, the bitumen's present in these products give off fumes which are undesirable to inhale as very small quantities of HYDROGEN SULPHIDE may be present in the bitumen.

#### RECOMMENDED PROTECTIVE CLOTHING:

High Visibility Jacket, Hard Safety Helmet, Overalls, Goggles/Visor, Armlet  
Gloves and Closed Safety Boots **at all times** when handling hot product.

TRANSPORTATION: Not classified as dangerous for transportation.

#### SAFE HANDLING PRECAUTIONS:

- \* **Do not exceed the maximum safe heating temperature.**
- \* **Do not allow the hot material to come into contact with water as the product will react violently.**
- \* **Always wear the recommended protective clothing.**

FURTHER INFORMATION: Additional information on the product is given in the system Safety Data Sheet and Installation Method Statement or by contacting the following:

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