



# Armourjoint® BP02

## Asphaltic Plug Joint System for Bridges



**MATERIAL DATA SHEET** Latest Revision - December 2021

1/3

### 1. GENERAL DESCRIPTION:

Armourjoint is 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.

### 2. PRODUCT:

The Bridge Joint Compound (BJC) system can accommodate a movement range of  $\pm 25\text{mm}$  in a standard APJ installation of 600mm 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

### 3. PHYSICAL PROPERTIES:

<b>DENSITY @ <math>25^\circ\text{C}</math>:</b>	1.45 $\pm$ 0.05
<b>FLASH POINT (COC) <math>^\circ\text{C}</math>:</b>	250 $^\circ\text{C}$
<b>MINIMUM APPLICATION TEMPERATURE:</b>	+ 5 $^\circ\text{C}$
<b>PRODUCT POURING TEMPERATURE:</b>	160 $\pm$ 10 $^\circ\text{C}$
<b>MAXIMUM SAFE HEATING TEMPERATURE:</b>	185 $^\circ\text{C}$
<b>PENETRATION VALUE @ <math>25^\circ\text{C}</math>:</b>	30 $\pm$ 5 dmm
<b>FLOW RESISTANCE @ <math>60^\circ\text{C}/5\text{hrs}</math>:</b>	$\leq$ 5mm
<b>SOFTENING POINT R&amp;B<math>^\circ\text{C}</math>:</b>	95 $\pm$ 10 $^\circ\text{C}$
<b>EXTENSION TEST @ 3.2mm/per hr:</b>	$\geq$ 50% @ $25^\circ\text{C}$

### 4. CHEMICAL RESISTANCE:

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

**STORAGE:** Store in a cool dry place preferably under cover and away from direct sunlight.

**COMPOSITION:** A polymer modified bitumen containing graded extender with adhesion agents.

### 5. 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.

#### Aggregate Properties:

<b>PSV</b>	<b>55+</b>
<b>AAV</b>	<b>4 - 6</b>



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**MATERIAL DATA SHEET** Latest Revision - December 2021

2/3

### 6. 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 - see below.**

### 7. ACUTE HEALTH HAZARDS & ADVICE:

**Armourjoint** presents 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 bitumens 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.

#### **INHALATION:**

Inhalation of the vapours should be avoided.

#### **INHALATION FIRST AID:**

Remove the affected person to fresh air. If breathing has stopped administer artificial respiration. Give cardiac massage if necessary. If the person is breathing but unconscious place in the recovery position. Obtain medical assistance immediately.

#### **SKIN CONTACT:**

Bituminous products present no acute health hazards to the skin other than burning when handling at elevated temperatures.

#### **SKIN CONTACT FIRST AID:**

Flush the contaminated skin with cold water. **DO NOT ATTEMPT TO REMOVE THE BITUMEN.** Cover the burn with a sterile dressing. Do not apply any medication to the affected part. Obtain medical attention immediately.

#### **EYE CONTACT:**

Contact with fumes may cause irritation and redness.

#### **EYE CONTACT FIRST AID:**

Irrigate with copious amounts of water for 10/20 minutes and seek medical advice immediately.

Manufactures & Suppliers of:  
Joint Sealants  
Bituminous Repair Compounds  
High Friction Surfacing  
Colour Coated Aggregates  
**The Complete Highway Service**

Walker Sealants Limited  
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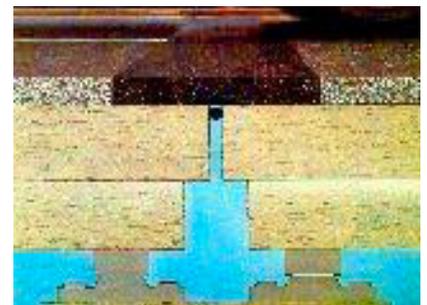
3/3

### PRECAUTIONS:

Avoid contact with the skin by use of suitable protective clothing.

### TRANSPORTATION:

Not classified as dangerous for transportation.



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