



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°C and is a registered binder system for use in Asphaltic Plug Joints (APJ).

APPROVALS: Highways Agency Number 029

3. PHYSICAL PROPERTIES:

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

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:

PSV	55+
AAV	4 - 6



Armourjoint® BP02

Asphaltic Plug Joint System for Bridges



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
Manufacturing & Sales Division
Outland Head
Bradwell, Hope Valley
Derbyshire, S33 9JP
Tel: 01433 621 600



Directors: J.S. Walker, J.G.R. Walker
Company Reg No. 4041871

A member of the Walker Group of Companies



Armourjoint® BP02

Asphaltic Plug Joint System for Bridges



MATERIAL DATA SHEET Latest Revision - December 2021

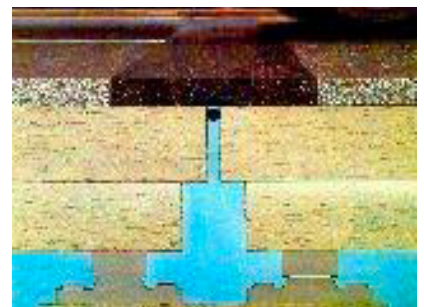
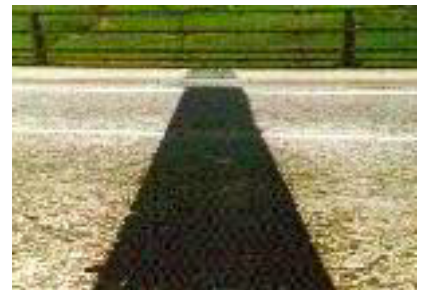
3/3

PRECAUTIONS:

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

TRANSPORTATION:

Not classified as dangerous for transportation.



This data is provided for your information and your attention is drawn to the appropriate package labelling and the product safety data sheet. Users of the product must ensure its proper use in accordance with good industrial practices, proper medical advice and any official or Government notice or publication. This information is provided gratuitously independent of any sale of the product and does not form part of any contract or sale nor does it constitute any representation, warranty or condition of merchantability or fitness for any purpose.