



# CL – BITUMEN JOINT

## MODIFIED BITUMEN EXPANSION JOINT

### DESCRIPTION

**CL-BITUMEN JOINT** is a polymer modified bitumen joint compound that acts as a hot-poured sealant. It is able to absorb bridge deck movements and is suitable for use in areas subjected to expansion, contraction and dynamic loads.

### USES

- Floor joints
- Pavements, roads and traffic surfaces
- Basement / car park
- Water excluding structures
- Water retaining structure including reservoir, swimming pool substructures

### FEATURES

- Flexible
- Water resistance
- Durable
- Chemical stability
- Good adhesion with concrete and asphalt surfaces
- Non-corrosive to steel or iron

### TECHNICAL INFORMATION

Appearance	: Black solid
Softening Point (R&B) (ASTM D36)	: $105 \pm 10^{\circ}\text{C}$
Pour Point, ASTM D1191	: $170 - 190^{\circ}\text{C}$
Cone Penetration @ $25^{\circ}\text{C}$ , 0.1mm, (ASTM D5)	: 10 - 30
Relative Density @ $25^{\circ}\text{C}$ (ASTM D71)	: 1.1 - 1.3
Joint Width	: 6 – 40mm

### SURFACE PREPARATION

All joints surfaces shall be dry, clean and free from old sealing compound, dust, dirt, scale grit laitance and loose particles. New concrete surfaces shall be cured before application.

For porous surfaces, it is recommended to prime the surface prior application. Use CL-Bitumen Primer at the rate of  $6 - 8\text{m}^2/\text{liter}$  depending on the porosity. Allow it to dry or at least touch dry before application, normally about 2 – 4 hours. For ferrous metal surfaces, it should be treated with anti-corrosion primer as protection prior application.

### APPLICATION

Apply heat/flame around the side wall of tin in up and down motion for 5 to 10 minutes until the CL-Bitumen Joint starts to melt. Apply heat/flame at the bottom/base of the tin until CL-Bitumen Joint reach  $175^{\circ}\text{C}$  or fully melted. Care should be taken when heating CL-Bitumen Joint. Avoid heating above  $210^{\circ}\text{C}$ .

Pour the melted sealant directly into the joint or crack until same level with surface or desired level. Protect from traffic until CL-Bitumen Joint has cooled down.

### COVERAGE

One kg of CL-Bitumen Joint will approximately fill the following meter run: -

		Joint Width (mm)							
Joint Depth (mm)		6	10	12	15	20	25	30	40
	6	27.7	16.6	13.8	11.1	8.3	6.6		
	8		12.5	10.4	8.3	6.2	5	4.1	
	10		10	8.3	6.6	5	4	3.3	2.5
	12			6.9	5.5	4.1	3.3	2.7	2.1
	15				4.4	3.3	2.6	2.2	1.6
	20					2.5	2	1.6	1.2

Note: Joint depth should not exceed joint width.

### SAFETY HANDLING PRECAUTIONS

- Wear suitable protective clothing such as gloves, boots and overalls
- Avoid contact with skin
- Keep working areas well ventilated
- Avoid any contact between hot bitumen and water because this will create a violent reaction
- Suitable fire extinguisher like foam or dry powder and sand should always be kept at a convenient position near the kettle
- Water must not be used to extinguish a bitumen fire

### SHELF LIFE

2 years when stored in cool and dry place, sealed in unopened container.

### PACKING

Available in 20 kg tin.

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Disclaimer: Specification are subject to change without notification.



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