

# ShaliSeal® CL BT

Bituminous Canal Lining Sealant



## Description

ShaliSeal® CL BT is highly elastic, ductile single component non sagging bituminous compound, which provides excellent adhesion to concrete, bricks and precast slabs. It is used in joints of canal lining / other concrete structures. Provides water-proof seal at all times under the maximum hydraulic head to which the seal joint is likely to be subjected. It is also resistant to temperature variations providing waterproof sealing for all type of joints.

## Approvals / Standards

IS : 13143 - 1991

## Product Information

<b>Colour</b>	Black
<b>Handling &amp; Storage</b>	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
<b>Packaging</b>	20 kg drum
<b>Shelf Life</b>	12 months from the date of manufacture when maintained in protected storage in original unopened sealed condition at 5 - 38°C. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.
<b>Handling Precautions</b>	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## Technical Characteristics

Property	Test Method	Result
Softening Point, °C	IS : 1205	>85
Penetration @ 25°C, 100 g, 5 s, 1/100, dmm	IS : 1203	15 - 30
Density, gm / cc	ASTM D 1457	1.25 ± 0.03
Pour Point, @ °C, maximum	IS : 1834	170
Flash Point, @ °C	IS : 1209	>200
Increase in Softening Point after heating to 20°C above the maximum point for 3 hours, °C, max	IS : 1205	5
Extensibility @ 0°C in mm, minimum	IS : 1834 Appendix C	6
Water content by weight, %, maximum	IS : 1211	0.5

## Coverage Guide

To estimate the amount of ShaliSeal® CL BT in running meter / kg to seal the joint can be very easily estimated by using the formula:  $800 / (W \times D) = L^* = \text{Running meter / kg}$   
L= Length of joint in running meter; W= Width of the joint in mm; D = Depth of the joint in mm  
\*Actual material consumption at site will vary depending on the wastage consideration of 5 - 20 %.

## Field of Application

- Cast-in-situ cement concrete lining.
- Precast cement concrete lining for canal.
- Flagstone paving.

## Advantages

- Ability to withstand expansion without cracking.
- Good adhesion to concrete / other surface.
- Low susceptibility to flow during hot weather condition.
- Resistant to sunlight / rain and cyclic temperature changes.
- Resistant to ingress of foreign substance.
- Has enough fluidity over the specified working temperature range.

## Application Methodology

### ➤ Surface Preparation

- Remove dust, flakes, oil, grease or other foreign particles by jet or dry air and clean the surface smooth before applying **ShaliSeal® CL BT**.

### ➤ Material Preparation

- Cut **ShaliSeal® CL BT** drum and heat it to 180 - 200°C while slowly stirring the material for uniformity. A 20 kg drum of **ShaliSeal® CL BT** will take 2 - 3 hrs. at 190 - 200°C for complete melting using hand stirrer.
- Do not overheat as this may cause frothing. If for any reason bubble appears during melting, keep the temperature around 180°C for a longer time with slow manual stirring till the bubble disappears.

### ➤ Application of Material

- Apply **ShaliTex® Primer** on the cleaned surface and allow it to dry at least 24 hrs. Cover the joint by plastic film if rain is expected after primer application.
- Apply molten **ShaliSeal® CL BT** by pouring, from one side of the joint allowing it to travel through the joint as much as practicable. While pouring, ensure that temperature of material is in the range of 170 - 185°C.
- Do not overheat the material.
- During the pouring process, to avoid spillage, place wooden boards on both sides of joint and pour from can with extended spout.

## Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

## Health & Safety

- **ShaliSeal® CL BT** is inflammable.
- Avoid contact with skin / eyes, and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting.



- Product Range**
- Waterproofing & Insulation
  - Road Surfacing
  - Sealants & Adhesives
  - Pipeline Coatings
  - Protective/Anti-Corrosion Coatings
  - Epoxy and Flooring
  - Grouts and Admixtures (GARA)
  - RestoFix - Repair/Rehabilitation
  - Other Construction Chemicals



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