

# Cemseal JT100EM

High Performance Membrane Joint Treatment System

**cemseal**<sup>®</sup>  
Your Construction Chemical Partner

## The Product

Cemseal JT100EM is a high performance joints treatment system with excellent weather resistance properties for construction, expansion and connection joints as well as for cracks.

Cemseal JT100EM consists of a specially formulated epoxy adhesive and a flexible membrane.

Cemseal JT100EM provide an irregular, high movement in more than one direction whilst maintaining a high performance joint sealing system.

## Uses

For protecting joints, expansion joints, construction joints and cracks in

- ◆ Roofing joints
- ◆ Tunnels and culverts works
- ◆ Sewage treatment works
- ◆ Water retaining structures
- ◆ Basements
- ◆ Extreme movement joints
- ◆ Repair and reinstatement of leaking joint sealing system
- ◆ Joints with varying settlement levels are expected.
- ◆ Cracks

## Advantages

- ◆ Easy application
- ◆ High flexible and elastic property
- ◆ Excellent adhesion to all sound and prepared substrates
- ◆ To hot and humid climate in tropical countries.
- ◆ Performs well within wide range of temperatures
- ◆ Weather and water resistant
- ◆ Versatile system suitable for various difficult situations
- ◆ Good resistance to many chemicals
- ◆ Sewage resistance
- ◆ Root resistant

## Technical & Physical Data

Colour	Cemseal JT100EM Epoxy Adhesive	Grey Tape Grey / Brown
Packaging	100mm wide Membrane	20, 25 m/roll
	150mm wide Membrane	20, 25 m/roll
	200mm wide Membrane	20, 25 m/roll
	250mm wide Membrane	20, 25 m/roll
	Epoxy Adhesive	5, 25 kg/set
Elongation at break	Cemseal JT100EM	>350%
Shelf Life	12 months of kept in a cool dry sheltered place	

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## Method of Statement

### **Substrate**

All substrate (Concrete, Stone, Mortar, Renderings, Steel, Resin Surface) to receive Cemseal JT100EM High Performance Joint Treatment System shall be structurally sound and must be firm, dry, clean, free of dirt, oil, grease and all other foreign matter. The age of new concrete must be at least 28 days is required of the prepared surface before application.

EXISTING SUBSTRATE : The surface must be existing structurally sound, dry and free of all contaminants. Weak or contaminated concrete must be remove until sound concrete is realized. Old coating, toppings, waxes, oils etc must be removed by mechanical methods.

Mechanical methods such as blasting or grinding should be carried out to remove the weak layer of surface laitance followed by thorough vacuum/dust removal.

Any spalling or honeycombing must be repaired using Cemseal Repair Mortar and allowed to cure completely prior to application of Cemseal JT100EM System.

Do not apply to siliconised substrates.

### **Mixing**

Cemseal JT100EM Epoxy Adhesive is supplied in pre-weighed and blended units. First pour the liquid Component A into a suitable container and stir with slow speed paddle stirrer. Slowly, add Component B until a consistent colour is achieved.

### **Application**

Pour the mixed material on to the prepared substrate each side of the joint or crack, spread with a trowel or squeegee to the desired thickness and coverage rate. The width of application is dependent on the width of Cemseal JT100EM used but a minimum of 50-60 mm each side of the joint / crack is recommended.

Bed the membrane firmly into the epoxy adhesive, then use a rubber or metal hand roller to achieve contact between the materials. Immediately apply a second layer, 1-2mm thick over the edges of the membrane.

Cemseal JT100EM should be hot air welded to produce further continuous runs or "X", "T" or "L" junctions as required. Overlaps have to be 40-50mm. Welding is carried out using a proprietary wide slot nozzle hot air welding tool. The tool should be set to the correct heat output by trial to achieve satisfactory weld.

The faces of the overlap are heated by moving the welding tool along with joint and simultaneously, pressure should be rolled to the heated overlap to ensure that the faces are fused together.

### **Limitation and Others Application**

To consult the local Cemseal's representative.

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### **For Further Information**

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### **First Aid**

In case of contact with eyes, skin or body wash immediately with clean fresh water or stand under shower and wash off. In case of inhaling of vapor or ingestion remove to fresh air and do not induce vomiting. **Obtain immediate medical treatment.**

### **Statement of Responsibility**

The technical information and application advice given in this Cemseal publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature no assumption can be made as to a products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user, is responsible for checking the suitability of products for their intended use.

### **Note**

Field service where provided, does not constitute supervisory responsibility. Suggestions made by Cemseal either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not Cemseal are responsible for carrying out procedures appropriate to a specific application.

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