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The Trusted Brand in
CONSTRUCTION CHEMICALS

ISO 9001
BUREAU VERITAS
Certification

CEMTEC TAM PU 50

FLEXIBLE RESIN FOR SEALING AGAINST WATER INGRESS

DESCRIPTION

CEMTEC TAM PU 50 is a Single Component polyurethane resin for sealing water leaks. It expands on contact with water and cures to form a robust, flexible foam.

ADVANTAGES

- Approved for use with potable water, meets requirements of Water Research Council BS 6920: 1988.
- Solvent Free.
- Non-flammable.
- Resistant to fungi, gases and chemicals normally found in soil and industrial structures.
- Excellent adhesion and tensile strength.
- Withstands thermal expansion / contraction, wet / dry cycles, freeze / thaw cycles and crack movement without degradation.

APPLICATIONS

When injected, **CEMTEC TAM PU 50** reacts with water and forms a high tensile strength closed cell foam, stopping the water flow.

CEMTEC TAM PU 50 can be injected by two methods.

1) Single piston pump that is capable of high pressure. The resin will react with the water in the structure and produce a foam as shown in the Test Data Table.

2) Twin piston pump. The water / resin ratio can be varied to form different density foams as shown in the Test Data Table.

CEMTEC TAM PU 50 has been designed for injection into expansion joints. Its flexibility and low viscosity also makes it suitable for repairing narrow joints and cracks where further movement is expected.

SPECIFICATION

CEMTEC TAM PU 50

Appearance	Yellow Liquid.
Viscosity (25 °C.)	300 - 500 mPa.S
(Brookfield RV 11 spindle no. 2 at 60 rpm)	
Specific Gravity	1.1 at 25 °C.

TEST DATA TABLE

All test performed at 25 °C. and 55% relative humidity.

Ratio	*Cream Time Seconds	Rise Time Seconds	Foaming ratio	Gel condition
1.1	40	98	3	HR foam
1:2	35	90	2	HR foam
1:3	35	110	4	HR foam
1:4	15	120	7	HR foam
1:5	30	150	6	Tacky foam**

* Ratio between water and **CEMTEC TAM PU 50** resin.

** The foam fully cures in 24 hours.

The gel time is also dependent on the temperature of the **CEMTEC TAM PU 50** and the ambient temperature - Mixing Ratio 1: 1

Temp. C	*Cream Time Seconds	Rise Time Seconds	Foaming ratio	Gel condition
10	50	140	2	HR foam
20	40	100	2	HR foam
25	40	98	3	HR foam
30	25	90	3	HR foam

HR - Highly Resilient.

SAFETY

When handling the raw materials and components, care should be taken to prevent the liquid from coming into contact with skin and the eyes. Avoid inhalation of their vapours.

PACKING

20 Kg Pail

CMCI

"High Quality Construction Chemicals"

CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES
P.O. Box 7137, Dammam 31462, Saudi Arabia,Tel: 00966-13-8471450; Fax: 00966-13-8471575
Email: tech@cmci-sa.com, Web: www.cmci-sa.com

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users