

CEMTEC 40FC

POLYURETHANE SEALANT AND ADHESIVE



DESCRIPTION:

CEMTEC 40FC is a general purpose one component iso-cyanate free polyurethane sealant /adhesive which cures by moisture to an elastic and tough sealant. It is highly resilient and has excellent recovery characteristics. It can function under wide range of temperatures.

PRODUCT DESCRIPTION:

Composition: Polyurethane base joint sealant.

FEATURES & ADVANTAGES

- Easy to use, being one component system.
- Excellent adhesion to different construction materials.
- Excellent resistance to different chemicals and microorganisms.
- Excellent weathering and aging properties.
- Can be over painted after curing.
- Remains elastic even in cold weather.
- No bubble formation.
- Excellent extrudability and ease of application.

BASIC USES

For sealing movement joints in precast concrete construction, balcony parapets, bridge culverts, retaining walls etc., For caulking of joints around windows, doors, skirtings, wall/floor joints and shutter housings. For sealing air conditioning systems, connecting joints in sheet metal fabrications.

TECHNICAL DATA

Hardness (Shore A)	: 40 ± 5 ASTM D 2240
Service Temperature	: -40°C up to 90°C
Application Temperature	: 5°C up to 40°C
Tack Free Time	: 2hrs @ 77°F & 55% RH
Cure Rate	: Approx. 2-3 mm/day
Elongation at break	: >100%, ASTM D 412
Tensile Strength	: 2N/mm ² ASTM D 412
Resilience Movement	: 90%
Accommodation Factor	: 25%
Toxicity	: No restriction as cured.
Shelf Life	: 12 Months

RESISTANCE TO CHEMICALS

Fuels (solvents)	: Excellent
Oils	: Excellent
Grease	: Excellent
Acetic acid Chlorinated hydrocarbons	: Limited resistance
Water	: Excellent
Sewage water	: Excellent

INSTALLATION

Joint Design

Suitable for all properly designed joints following accepted engineering practice. Joint width must be a minimum of 4 times the anticipated movement

	Joints
Minimum width	6.5mm
Maximum width	32mm
Minimum depth	6.5mm

It is recommended to keep the depth is equal to the width for joints width less than 12mm and keep the width twice as depth for joints more than 12mm width.

Surface Preparation

All joints must be absolutely clean. For concrete, sand-blasting is recommended. All curing compounds, old caulks, grease, waterproofing compounds etc., must be removed. For nonporous surfaces such as glass, metal etc., cleaning with M.E.K or Toluene is recommended. Polyurethane rod or Polyurethane foam is recommended as a joint filler and back-up material. Fillers treated with bituminous products, grease or oil should not be used. Where present they must be removed or separated by viny tape or polythylene film

Non Porous Surfaces

For non porous surfaces such as metals, cleaning and drying is recommended to acheive dust and grease free surfaces.

Application

Apply by caulking gun, hand or pressure type Bulk sealant can be applied by pumping equipment. Press firmly into joint to assure good contact and finish with a trowel or putty knife.

Standards

The product complies with ASTM C 920, Type S Grade NS, Class 25. U.S Federal specification TT-S-00230 Type II Class A.

AVAILABILITY

CEMTEC 40FC is supplied through building material dealers. Major contractors are supplied directly from Construction Material Chemical Industries.

MAINTENANCE

If CEMTEC 40FC is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with CEMTEC 40FC

COVERAGE	Contact CMCI tech dept
PACKAGING	600 ml sausages
COLOUR	Dark Grey, white, Beige and other Colors available on request.

REMARKS

- It is suggested to do pre-testing for adhesion and substrate compatibility to determine the correct surface preparation method and to eliminate site problems
- As commercially available paints are of varying quality, it is suggested to do a compatibility test prior to application.
- Store CEMTEC 40FC out of direct sunlight. Store in indoor at 25°C.
- Avoid contact with skin and eyes.

PRIMARY APPLICATION ESTIMATOR

Depth of Joint MM	Width of Joint						
	6	9	12	15	18	22	25
6	17	11	8	7	6	5	4
9	11	7	6	4.4	3.7	3	2.7
12	8	6	4.2	3.3	2.8	2.3	2
15	7	4.4	3.3	2.7	2.2	1.8	
18	6	3.7	2.8	2.2	1.9
22	5	3	2.3	1.8
25	4	2.7	2

Liner meters per 600 ml sausage pack (approx.)

TD/PDS/0911/D

Quality Statement

CMCI manufactures 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.

"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

The Technical Specification information and recommendations given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.