

CEMTEC 240 FC

POLYURETHANE SEALANT AND ADHESIVE



DESCRIPTION:

CEMTEC 240 FC 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: Modified polyurethane base joint sealant.

FEATURES & ADVANTAGES:

- Easy to use, being one component system.
- Excellent adhesion to different construction materials like steel to concrete, steel to steel, concrete to aluminum etc.
- 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, skirting, wall/floor joints and shutter housings. For sealing air conditioning systems, connecting joints in sheet metal fabrications.

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.

TECHNICAL DATA:

Density (@20°C) : 1.42g/ml
 Hardness (Shore A) : 50 ± 5 ASTM D 2240
 Service Temperature : -40°C upto 90°C
 Application Temperature : 5°C up to 40°C
 Tack Free Time : 30min @ 25°C
 Cure Rate : Approx. 3-4 mm/day
 Elongation at break : 500%, ASTM D 412
 Tensile Strength : 3N/mm² ASTM D 412
 Resilience : 90% DIN 52458
 Movement accommodation Factor : 25%
 Shelf Life : 6 Months

RESISTANCE TO CHEMICALS:

Fuels (solvents) : Excellent
 Oils : Excellent
 Grease : Excellent
 Acetic acid : Limited resistance
 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.

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

Surface Preparation: All joints must be absolutely clean. For concrete, sandblasting 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 polyethylene 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.

AVAILABILITY:

CEMTEC 240 FC is supplied through

building material dealers. Major contractors are supplied directly from Construction Material Chemical Industries.

MAINTENANCE:

If **CEMTEC 240FC** is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with **CEMTEC 240 FC**.

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 240 FC** out of direct sunlight. Store in indoor at 25 °C.
- Avoid contact with skin and eyes.

**PRIMARY APPLICATION
ESTIMATOR:**

		Width of Joint						
DEPTH OF JOINT	mm	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 600ml 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 erformance construction products CMCI also offers full technical field support to consultants, Architects, contractors, applicators and End Users.

"High Quality Construction Chemicals"

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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.