



CEMTEC 40FC

POLYURETHANE SEALANT AND ADHESIVE



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.

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.

ADVANTAGES:

- Easy to use, being one component system.
- Excellent adhesion to different construction materials.
- Excellent resistance to different chemicals and micro organisms.
- 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

COLORS:

Dark Grey, white, Beige and other Colors available on request.

Packing: 600 ml sausages

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) : 1.5 g/cm³, ISO-2811, DIN 53217, ASTM 1475.

Hardness (Shore A) : 40 ± 5 ASTM D 2240, DIN 53505

Service Temperature : -40°C up to 90°C, Shock 120°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 : 300%, ASTM D 412

Tensile Strength : at 50% elongation; 2.5kp/cm²
at 100% elongation; 3-3.5 kp/cm²
ASTM D 412

Resilience : 90%, DIN 52458

Movement accommodation Factor: 25%

Toxicity : No restriction as cured.

Shelf Life : 12 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.

	Bonding	Joints
Minimum width	2.5mm	6.5mm
Maximum width	10mm	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, 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.

“High Quality Construction Chemicals”



Fillers treated with bituminous products, grease or oil should not be used. Where present they must be removed or separated by vinyl tape or polyethylene film.

Non Porous Surfaces: For non porous surfaces such as metals, cleaning and drying is recommended to achieve 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 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**.

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.
- Surface exposed to water immersion condition should be primed with ELASTOPOXY PRIMER.
- 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.

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 pack

TD/PDS/0609/B

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

The Technical Specification information and recommendation 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.