

CEMTEC 920

EPOXIDISED POLYURETHANE SEALANT



DESCRIPTION

CEMTEC 920 is a low modulus, iso-cyanate free epoxidised joint sealant which cures at ambient temperatures to a firm, flexible, tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation. It is available in the **following two types:**

Type I - Self-Leveling or pourable grade Type II - Gun Grade.

PRODUCT DESCRIPTION

Composition

Joint Sealant is based on Epoxidized Polyurethane. This sealant incorporates all the positive and none of the negative characteristics of standard sealants. As all the components are insensitive to moisture, the containers may be opened and re-sealed without the material curing.

BASIC USES

A general purpose sealant providing flexible, durable, weather tight seals for all types of building joint such as: caulking, expansion joints in masonry and metal curtain wall, perimeter joints of panels, doors, horizontal joints of plaza and decks. For use as a sole sealant for glazing and bedding applications. For caulking all joints that are subject to water immersion, such as reservoirs, canals, water tanks, ponds etc. Primerless adhesion to glass, wood, concrete and metal, including anodised aluminum. **CEMTEC 920** Type I is recommended for all expansion joints in concrete pavements.

LIMITATIONS

Not recommended for -

- Areas subject to harsh chemical immersion.
- special architectural finish without prior testing.

SHEL LIFE

1 year in unopened containers.

STANDARDS

Meets U.S. Federal Specifications TT-S-00227e, Class A, Type I and Type II, USASI Specifications A-116.1-1967.

TYPE II

Meets **ASTM C 920, Type M, Grade NS, Class 25,**

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.

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 submerged applications, prime all joints with Cemtec ElastoPoxy Primer prior to installation. For non-porous surfaces such as glass, metal, etc. cleaning with M.E.K. or Xylene is recommended. Polyethylene 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 vinyl tape or polyethylene film.

APPLICATION

Squeeze the entire contents of colour pack into "A" component and mix thoroughly till if ones uniform color is obtained. Then add "B" component and mix thoroughly with a " jiffy " mixer until uniform consistency is obtained. The "A" components are either a neutral tint base, for dark colours or a white tint base, for white or light colours. While the colour pack is not needed for material to cure, it is needed for the ultimate colour (except for white), it is unacceptable to use the neutral components without the colour pack. Apply Type II by caulking gun, hand or pressure-type. Bulk sealant can be applied by pumping equipment, trowel or putty knife. Press firmly into joint to assure good contact

MAINTENANCE

If **CEMTEC 920** is damaged, and the joint has not been contaminated, it can be repaired by cutting out the damaged part and re-sealing it with **CEMTEC 920** .

COVERAGE	Refer to the below table.
PACKAGING	Available in 4 liter kits.
COLOR	Grey and White - other Colours upon request.

TECHNICAL DATA

PROPERTY	ASTM C-920 REQUIREMENT		RESULT	
	Grade P, Type I	Grade NS Type II	Grade P, Type I	Grade NS Type II
Pot life @ 77°F	2 hrs	3 hrs	Pass	Pass
Rheological Properties	No Deformation	3/16" Max flow	Pass/none	Pass/none
Extrusion time	20secs. Max	45 secs max	N/A	38 Sec.
Hardness (shore A)	Between 15 and 50	Between 15 and 50	20 +/- 5	20 +/- 5
Hardness after heat aging	<50A	<50A	28A	30A
Effect of heat aging	10% weight loss max		1.8%	2.3%
	No Cracking		Pass	Pass
	No Cracking		Pass	Pass
Tackfree Time	72 hrs. Max	72 hrs. Max	Pass	Pass
Stain and color change	No stain or Mortar		Pass	Pass
Durability	1.5 sq.in.max total bond loss			
Glass			No Bond Loss	No Bond Loss
Aluminum			No Bond Loss	No Bond Loss
Mortar			No Bond Loss	No Bond Loss
Adhesion in peel	5 PLI minimum 25% adhesive loss Max			
Glass			No Loss/16 PLI	No Loss/18 PLI
Aluminum			No Loss/15 PLI	No Loss/17 PLI
Mortar			No Loss/20 PLI	No Loss/25 PLI
Adhesion in peel after UV	5 PLI minimum 25% adhesive loss Max		No Loss/14 PLI	No Loss/16 PLI
Effect of Accelerated Weathering	No surface cracking		Pass	Pass

COVERAGE RATE WIDTH OF JOINT

		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
DEPTH OF JOINT	1/4"	308	205	154	123	102	88	77
	3/8"	.....	136	102	82	68	58	51
	1/2"	.....	.....	77	61	51	44	38
	5/8"	.....	.....	.....	49	41	35	30
	3/4"	.....	.....	.....	.....	34	29	25
	7/8"	.....	.....	.....	.....	.....	25	22
	1"	.....	.....	.....	.....	.....	.....	19
			Linear Feet Per Gallon					

WIDTH OF JOINT

		6	9	12	15	18	22	25
DEPTH OF JOINT	6	28	19	14	11	9	8	7
	9	.....	12	9	7	6	5	4
	12	.....	.....	7	6	5	4	3
	15	.....	.....	.....	4.4	3.7	3	2.7
	18	.....	.....	.....	.....	3.1	2.5	2.2
	22	.....	.....	.....	.....	.....	2.1	1.8
	25	.....	.....	.....	.....	.....	.....	1.6
			Linear meters per liter					

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.