

CEMTEC 227 P.U.

POLYURETHANE SEALANT

CEMTEC 227 P.U. is a two-part, self-leveling or gungrade polyurethane sealant which cures at ambient temperature to a flexible tear-resistant rubber. It is highly resilient and has excellent recovery characteristics after extended periods of compression or elongation.

DESCRIPTION

Composition : Polyurethane base joint sealant

Basic Uses : For sealing and caulking all joints that are subject to movement caused by expansion and contraction of structures with changes in temperature. Bonds to masonry, wood, glass and metal.

Limitations : Containers of Component B that have been opened must be used up within one or two days since it is a moisture-reactive material. It commences curing when exposed to air. All surfaces must be completely free of foreign matter.

Colors : Grey, Black. Other colors available on order.

Sizes : Available in 4 liter & 1.5 Gallons kits

Standards : Federal Specification TT-S-227e and USASI Specification A116.1-1967.

The above are typical properties.

Individual batches may vary to a minor degree.

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 non-porous surfaces such as glass, metal, etc. cleaning with M.E.K. or Toluene 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. All joint surfaces must be primed with CEMTEC PU Primer.

Application : Apply by caulking gun, hand or pressure type or pour from container. 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 227 P.U. is supplied through building material dealers. Major contractors are supplied directly from Construction Material Chemical Industries.

MAINTENANCE

If **CEMTEC 227 P.U.** is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with **CEMTEC 227 P.U.**

TECHNICAL DATA

PROPERTY	TEST METHOD	RESULT TYPE I	RESULT TYPE II
Consistency	Fed Spec. TT-S-227e	Self-Levelling Pourable	Non-Sag/ Gungrade
Potlife at 77°F (25°C)	---	2-3 hrs.	1-2 hrs
Tackfree Time at 77°F (25°C),50% R.H.	Fed. Spec. TT-S-227e	12 hrs.	8 hrs.
Cure Time at 77°F (25°C),50% R.H.	Observed	36-48 hours	24- 36 hours
Hardness (Shore A)	ASTM D-2240	30±5	30±5
Service Temperature Range	---	-40°F (-40°C) to 180°F (82.2°C)	
% Elongation	ASTM D-412	400%	300%
Tensile Strength	ASTM D-412	225 psi	280 psi
Tear Strength	ASTM D-624	85 psi	85 psi

“High Quality Construction Chemicals”

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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

	mm	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 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.