

# CHEM-SEAL PS

## POLYSULPHIDE SEALANT

### DESCRIPTION:

**CHEM-SEAL PS** is a two-part, self-leveling or gun grade 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.

**Composition:** Polysulphide based 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 A&B that have been mixed must be used up within one two to 4 hrs since it is a reactive material. It commences curing when mixed. All surfaces must be completely free of foreign matter.

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

**Sizes:** Available in 2.5 liter units.

### 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.

**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:

**CHEM-SEAL PS** is supplied through building material dealers. Major contractors are supplied directly from hemi Tech.

### 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.	2-3 hrs.
<b>Tackfree Time</b> at 77°F (25°C), 50% R.H.	Fed. Spec. TT-S-227e	12 hrs.	8 hrs.
<b>Cure Time</b> 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 pli	85 pli

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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						
		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							