

POLE SETTING COMPOUND SPEC SHEET



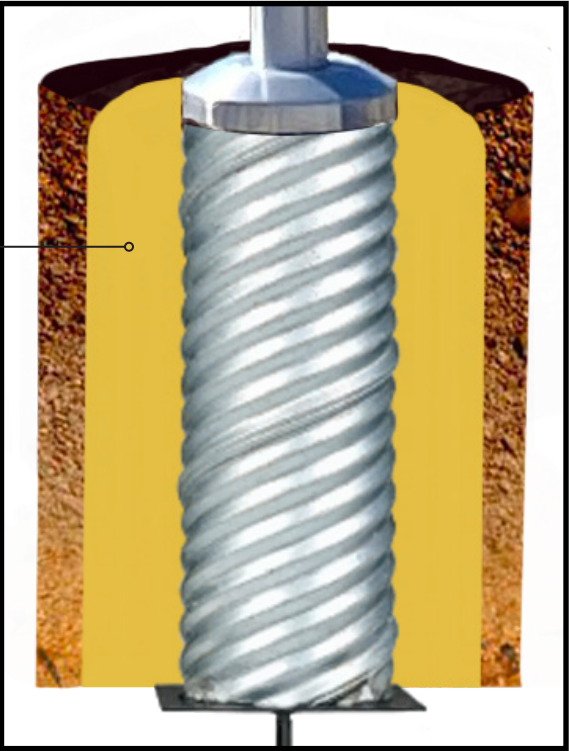
Post Setting Polyurethane Foam for Lasting Results



Polecrete®
STABILIZER

Locks ground sleeve into place to firmly stabilize into the surrounding soil.

Field proven since 1988 as a viable alternative to concrete, Polecrete® Stabilizer is equally as strong yet does not require additional elements to complete the job. Delivered in lightweight, portable kits, there is no need for a water source. Ideal in sand, rock and poor soil conditions, Polecrete Stabilizer works year-round in any temperature and continues working for many years to stabilize foundations for flagpoles.



STANDARD SKU LIST		
1.0 cu. ft. – Box	–	PSC1.0CUFT
2.5 cu. ft. – Box	–	PSC2.5CUFT
3.75 cu. ft. – Box	–	PSC3.75CUFT
5.0 cu. ft. – Box	–	PSC5.0CUFT
6.0 cu. ft. – Box	–	PSC6.0CUFT
7.0 cu. ft. – Box	–	PSC7.0CUFT
10.0 cu. ft. – Pail	–	PSC10.0CUFT



Benefits

- ✓ Ideal for Remote Locations
- ✓ No Need for Water Source
- ✓ Expands 15X Original Volume
- ✓ Sets in 15 Minutes
- ✓ Resists 500+ lbs. of Lateral Force
- ✓ Non-Hazardous



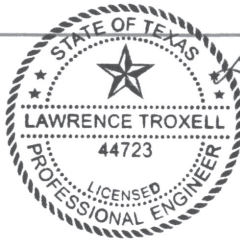
Void Fill Calculator

QUICK REFERENCE CHART – FOR POLES UP TO 60 AFG					
POLE HEIGHT (FT.)	GROUND SLEEVE DIAMETER	GROUND SLEEVE DEPTH (IN.)	HOLE DIAMETER (IN.)	CU. FT.	SKU
20	8	24	14	2.0	PSC1.0CUFT (2 QTY)
25	10	36	16	3.5	PSC3.75CUFT
30	10	36	16	2.5	PSC2.5CUFT
35	10	42	16	3.5	PSC3.75CUFT
40	12	48	20	3.5	PSC3.75CUFT
45	12	48	20	3.5	PSC3.75CUFT
50	15	60	22	7.0	PSC7.0CUFT
60	15	72	22	8.5	PSC10.0CUFT

For more detailed void fill calculations, scan the QR code.



Design Specifications



L. Troxell
7/18/2023

Notes:

1. Reference flagpole specifications = 5" diameter
2. Polecrete Stabilizer 4.0 pcf (polyurethane) BMK Manufacturing
 - a. Ultimate compressive strength = 80psi
3. Allowable Lateral soil bearing capacity = (See Table Below)
4. Foundation depth (SEE TABLE BELOW)
5. Design standards
 - a. Guide Specifications for Design of Metal Flagpoles FP 1001
 - i. Figure 3.2.2 Basic Wind Speed = 90 M/H
 - b. IBC & UBC chapter 18 "Flagpole Footing Design"
6. Foundation Design (Soil Class Controls Design)
 - a. Soil pressure at polecrete interface (SEE TABLE BELOW)
 - b. Polecrete: allowable pressure (S_1) at soil interface = 5 ksf
 - c. Polecrete: allowable pressure at flagpole interface = 5 ksf

IBC 2006 Table 1804.2

Class of Materials	Lateral Bearing S_1 PSF/FT	Depth 1' dia.	Depth 1.5 dia.	Depth 2' dia.
Crystalline Bedrock	1200	4.06	3.53	3.2
Sedimentary and Foliated Rock	400	5.94	5.16	4.67
Sandy Gravel and/or Gravel (GW and GP)	200	7.57	6.57	5.94
Sand, Silty Sand, Clayey Sand, Silty Gravel and Clayey Gravel (SW, SP, SM, SC, GM and GC)	150	8.38	7.27	6.57
Clay, Sandy Clay, Silty Clay, Clayey Silt, Silt and Sandy Silt (CL, MI, MH and CH)	100	9.67	8.38	7.57



Site: FLAGPOLE POLYCRETE FOUNDATION	Drawing: S-0001	Project: 00101	Drawn: LT	Notes:	Troxell Engineering San Marcos Tx 78666
Title: FLAGPOLE FOUNDATION	Scale: 3/32"=1'0"	Date: 07/17/2023	Rev: A		

Certifications



Polecrete Stabilizer is used as a stabilizing backfill around embedded posts, as an alternate to concrete described in IBC Section 1807.03.3. Polecrete Stabilizer is also to be used as a footing, to transfer downward axial load from the embedded post to the soil. The elevation of the top of the backfill material must allow for 3 to 6 inches (76 to 152 mm) of soil to be placed over the backfill material, to prevent exposure to fire.



Polecrete® Stabilizer is a USDA Certified Biobased Product which contains 44% USDA certified biobased content. The USDA Certified Biobased product label is a certification mark of the U.S. Department of Agriculture.