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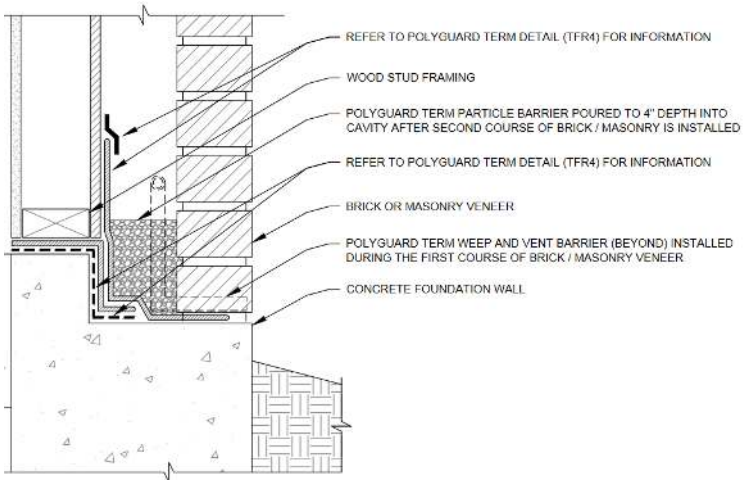
TERM® WATERPROOFING | TERMITE BARRIER

TERM® Particle Barrier – cavity fill application

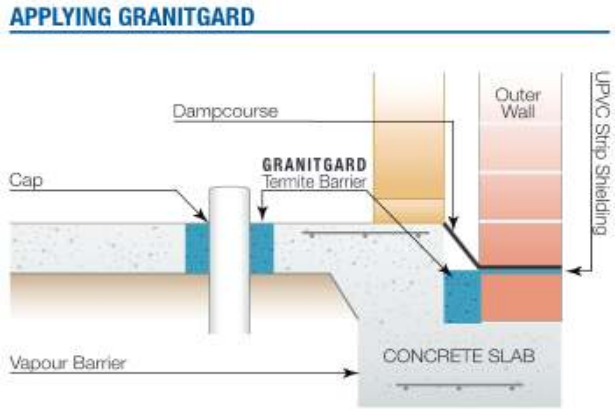


DESCRIPTION

This cavity fill termite barrier application is widely used in Australia, but almost unknown in the United States.

Termites are a great problem in Australia, where species even more voracious than the *Coptotermes formosanus* which plagues the southern United States.

Australia has found that properly sized and irregularly shaped stone particles can block subterranean termites from gaining entry to structures. Australian builders place granite stone particles in masonry cavities, and around plumbing and electrical slab penetrations.



Australian building design using stone particle termite barriers

In the mainland U.S., testing at the Universities of Florida, California, Georgia, Texas A&M, and Louisiana State have demonstrated that precisely sized particles will block the two major U.S. mainland species of *Coptotermes formosanus* and *Reticulitermes flavipes* termites.

Enlarged photograph of termites attempting to move TERM Particle Barrier video 19 Days in a Termite Colony

Building designs used in the United States differ from those in Australia. But the design shown in the graphic at the top of this page can be used as a sustainable, non-chemical barrier to stop termites from gaining entrance through masonry weep holes above exposed concrete perimeters.

PHYSICAL PROPERTIES – TERM Particle Barrier

Property	Typical Property
Fineness Modulus	3.83
ASTM D 451 – Minimum % retained of sieve size 8 - 14	90%
% of void space (*calculated using water displacement*)	1.72
Hardness – Mohrs Hardness Scale	> 6
Gradient Angularity	2000 - 3000

PACKAGING INFORMATION – TERM Particle Barrier

Product	Unit of Measure	Unit Weight
Polyguard TERM Particle Barrier	Bag	50 lb.

Warning

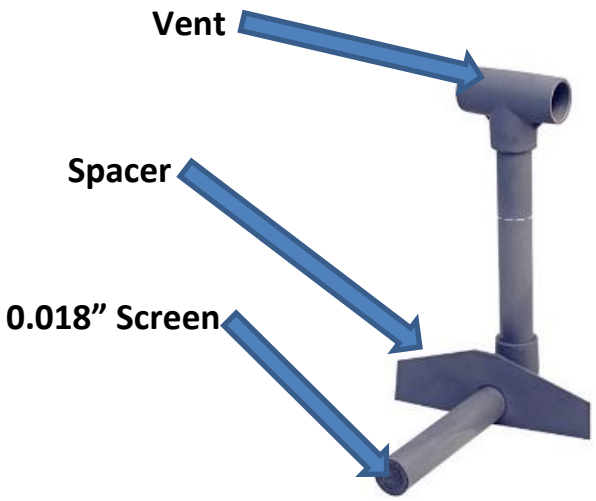
Due to the possibility of using particle barrier which will not have the properties to exclude termites, you should confirm that the manufacturer of the particle barrier to be used on the project is acceptable to the Structural Pest Control regulators of the state where the project is located.

The acceptability of the source to regulators should be confirmed in writing by the particle barrier supplier.

PREPARATION:

1. If TERM Underslab and Foundation Barriers have not been installed, it is recommended that TERM Sill Moisture|Termite Barrier be installed prior to framing.
2. It is recommended that TERM Flashing Moisture|Termite Barrier be installed on the sheathing/horizontal concrete surface. It will stop air and moisture leaks in addition to termites.
3. *Note: each component of the TERM Barrier System is designed to protect the portion of the structure where it is properly installed. Each component is designed to make the termite go somewhere else to attempt penetration.*
4. Order the proper number of TERM Masonry Weeps required.
5. Order the amount of TERM Particle Barrier required to fill the cavity. If you know the width of the cavity, and the length of cavity to be filled, you can use the estimating table (below) to plan particle barrier requirements.

Application Sequence



Vent:

Assures ventilation within the cavity

Spacer:

Spaces vent tube away from the interior of the masonry

Screen:

0.018” apertures in the screen are small enough to block termites.

Install weep in first course

Installation of weep:

The weep is installed during the first course of masonry.

Particle barrier

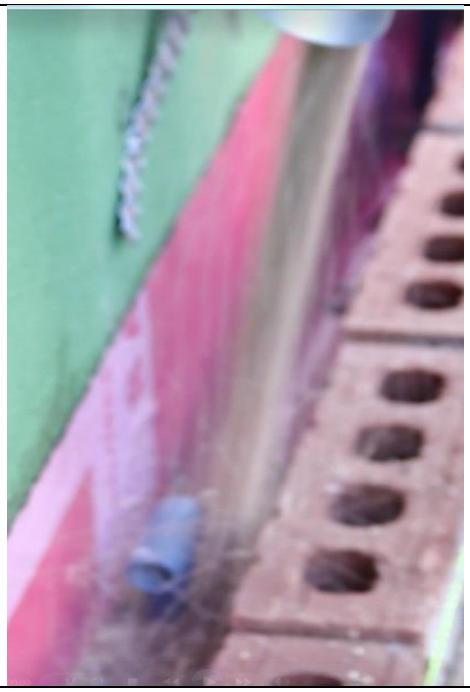
Particle Barrier:

Note the spout which is affixed to the bag. The use of this spout will provide a more even pour during application.

The estimating table located below these instructions can be used to determine the quantity of TERM Particle Barrier is needed.

Once masonry courses are higher than 4”

Pour in particle barrier to 4” depth



Particle Barrier Application:

After the installed masonry courses exceed 4” in depth, particle barrier is poured to a 4” depth all along the cavity.

Calculation of the number of 50# bags of TERM Particle Barrier needed for a masonry cavity											
Cavity width *(inches)*	**1.0**	**1.5**	**2.0**	**2.5**	**3.0**	**3.5**	**4.0**	**4.5**	**5.0**	**5.5**	**6.0**
	0.08333	0.124995	0.16666	0.208325	0.24999	0.291655	0.33332	0.374985	0.41665	0.458315	0.49998
Outside perimeter - length of the cavity less garage, doors, patios, etc.											
100	6	9	11	14	17	20	22	25	28	30	33
110	7	10	13	15	18	21	24	27	30	33	36
120	7	10	14	17	20	23	27	30	33	36	40
130	8	11	15	18	22	25	29	32	36	39	43
140	8	12	16	20	23	27	31	35	39	42	46
150	9	13	17	21	25	29	33	37	41	45	49
160	9	14	18	22	27	31	35	40	44	48	53
170	10	14	19	24	28	33	37	42	47	51	56
180	10	15	20	25	30	35	40	45	49	54	59
190	11	16	21	26	31	37	42	47	52	57	62
200	11	17	22	28	33	39	44	49	55	60	66
210	12	18	23	29	35	40	46	52	58	63	69
220	13	18	24	30	36	42	48	54	60	66	72
230	13	19	26	32	38	44	50	57	63	69	75
240	14	20	27	33	40	46	53	59	66	72	79
250	14	21	28	34	41	48	55	62	68	75	82
260	15	22	29	36	43	50	57	64	71	78	85
270	15	23	30	37	45	52	59	66	74	81	88
280	16	23	31	39	46	54	61	69	77	84	92
290	16	24	32	40	48	56	64	71	79	87	95
300	17	25	33	41	49	58	66	74	82	90	98
	Add 5% to 10% to the above numbers, as leveling variations make exact estimating difficult										

MAINTENANCE

Although the particles within the cavity should not need maintenance, it is important that the structure be inspected at least once a year for termites. Termites should not penetrate the particle barrier, but there are other places in the structure (*such as above, next to, or under the cavity*) where termite penetration may not be blocked.

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