



PLYFAST® CONCRETE SPIKE

Description: PLYFAST® Concrete Spikes are formed from heavy corrosion resistant carbon steel and designed to secure insulation, coverboards, single-ply roof membrane, wood, and steel to structural concrete. It is formed with an “S” shaped bend at the working end of the spike to create a secure embedment. It is available in lengths from 1-1/4-in. to 14-in. The PlyFast Concrete Spike is also Factory Mutual approved. Head Style: Mushroom Head.

Features & Benefits:

- Available with mushroom head.
- Heavier carbon steel with an “S” shaped bend at working end for maximum strength and pullout resistance.
- For insulation/membrane attachment to structural concrete.
- FM approved.

Corrosion Coating: Corrosion resistant coating exhibits less than 15% red rust which meets or exceeds FM 4470 corrosion standards and withstands 30 cycles of the Kesternich DIN 50018 SFW 2.0 test.

Application: PlyFast® Concrete Spike must penetrate structural concrete decks a minimum of 1-in. Pre-drill a 1/4-in diameter pilot hole at least 1/2-in deeper than fastener embedment using a carbide tip SDS or straight bit shank. Drive PlyFast® Concrete Spike as an ordinary nail. DO NOT TOE. Seat head flush with roofing surface. Drive the nail until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple. **Note: Care must be taken not to overdrive the nail and fracture the insulation facer.** Nail must be tight enough so that the plate does not turn.

Plate: Uses PlyFast® 3” Metal Stress Plate (sold separately).

Tools: The nail is intended to be installed with a hammer to minimum embedment of 1” until the head of the nail is properly seated in the plate. See PlyFast® Fastener Information Guide for specific details.

Approvals: PlyFast® Concrete Spike is listed or approved with Factory Mutual (FM). Contact U.S. Ply, Inc. for specific/applicable codes.

Fastening Pattern: Consult U.S. Ply Technical Department and/or Factory Mutual requirements for recommended patterns in normal, exposed, and high wind velocity areas.

Product Data: PLYFAST® Concrete Spike (typical)

Property	Concrete Spike-D	Concrete Spike-T
Head Type	Mushroom	Mushroom
Head Height	.115”	.115”
Head Dia. Max	.500”	.500”
Major Dia.	.239”	.239”
Tensile @ 1-1/4” embedment	1100 lbf	1100 lbf
Pull-out @ 1-1/4”	1550	1550
Corrosion Resistance	< 15% Red Rust after 30 cycles	< 15% Red Rust after 30 cycles



PROUDLY
MADE IN THE U.S.A.

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REV MAY 2023

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Product Data: PLYFAST® Ordering Information (typical):

Product	Length*	Pieces/Box	Weight/Box
PlyFast® Concrete Spike	1-1/4"	500	11 lbs
PlyFast® Concrete Spike	1-1/2"	500	12.5 lbs
PlyFast® Concrete Spike	2"	500	16.5 lbs
PlyFast® Concrete Spike	2-1/2"	500	20 lbs
PlyFast® Concrete Spike	3"	500	23.5 lbs
PlyFast® Concrete Spike	3-1/2"	500	27 lbs
PlyFast® Concrete Spike	4"	500	30.5 lbs
PlyFast® Concrete Spike	4-1/2"	500	34 lbs
PlyFast® Concrete Spike	5"	500	37.5 lbs
PlyFast® Concrete Spike	5-1/2"	250	41 lbs
PlyFast® Concrete Spike	6"	250	23 lbs
PlyFast® Concrete Spike	6-1/2"	250	24.5 lbs
PlyFast® Concrete Spike	7"	250	26.5 lbs
PlyFast® Concrete Spike	7-1/2"	250	28 lbs
PlyFast® Concrete Spike	8"	250	30 lbs
PlyFast® Concrete Spike	9"	250	33.5 lbs
PlyFast® Concrete Spike	10"	250	37 lbs
PlyFast® Concrete Spike	11"	100	16 lbs
PlyFast® Concrete Spike	12"	100	17.5 lbs
PlyFast® Concrete Spike	13"	100	19 lbs
PlyFast® Concrete Spike	14"	100	20.5 lbs

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.