

## 1 - Where can I buy Fast 2K?

Consult: "Where to Buy" tab at [www.fast2k.com](http://www.fast2k.com)

## 2 - What is Fast 2K?

Fast 2K is an award winning innovation, much better and more convenient than concrete for setting fence posts, mail boxes, signs and much more. Fast 2K uses the same technology applied by Royal Adhesives & Sealants to set utility poles for almost 15 years. One 2 lb (1kg) bag of Fast 2K replaces up to 2 x 50lb (23kg) bags of concrete, so there is no more handling heavy bags of concrete.

One 26 fl oz (770 mL) bag has enough Fast 2K to set one 4"x4" (10cm x 10cm) post in an 8" (20cm) x 3 ft (91cm) deep hole, whereas one 12.4 fl oz (367 mL) bag of Fast 2K has enough to set a 4"x4" (10cm x 10cm) post in an 6" (15cm) x 3 ft (91cm) deep hole. Fast 2K mixes in only 30 seconds; it does not require water and sets all types of posts in minutes.

The 26 fl oz (770 mL) bag expands to a volume of 20L or 0.70ft<sup>3</sup>.

The 12.4 fl oz (367 mL) bag expands to a volume of 9.4L or 0.33ft<sup>3</sup>.

## 3 - How many bags of Fast 2K do I need for my fence project?

It depends on the post and hole sizes as well as the Fast 2K bag size used. The narrower and deeper the hole, the better for installations with Fast 2K. As for the hole diameter, a minimum gap between the post and the hole wall is ideal. For example, a hole of 6 in (15 cm) is ideal for the installation of a 4x4 in (15x15cm) post. Check the bag calculator chart or Click on the "[Calculator](#)" tab at [www.fast2k.com](http://www.fast2k.com)

## 4 - What packages are currently available for Fast 2K?

There are currently two packages available: 12.4 fl oz (367 mL) and 26 fl oz (770 mL)

## 5 - What other applications can Fast 2K be used for?

In addition to setting all types of fence posts, here are some other examples where Fast 2K can be used:

- Bollards
- Clotheslines
- Gate posts
- Garden Light Post
- Mailboxes
- Signs
- Sports Posts and Poles such as Basketball, Soccer, Volleyball and Tennis.

To use Fast 2K for the above applications simply follow the same directions as to install fence posts. Please keep in mind that the hole should be 1" – 2" (2.5cm – 5cm) larger than the diameter of the post/pole to be anchored.

Fast 2K can also be used to anchor some items into the ground or into holes drilled in concrete. These types of applications include:

- Bicycle racks
- Park Benches
- Picnic Tables
- Planters
- Recycling Bins
- Sculptures/Statues
- Trash Receptacles

To level Fast 2K with the ground, it can easily be cut with a utility knife or small saw.

Flagpoles can also be set directly into the ground using Fast 2K. Please follow the same directions used to set fence posts, keeping these important differences in mind:

- 1) Make the hole diameter 2" – 3" (5cm – 8cm) larger than the diameter of the flagpole butt
- 2) The depth of the hole should be below the frost line in areas with harsh winters, and at least 10% of the pole should be buried below the ground
- 3) For aluminum poles, install grounding spikes as per the manufacturer's instructions before inserting the pole in the hole

FLAGPOLE			HOLE	HOLE
Overall Length	Exposed Height	Pole Butt Diameter	DEPTH	DIAMETER
22' (7 m)	20' (6 m)	5" (13 cm)	2' (61 cm)	7" (18 cm)
28'(9 m)	25' (8 m)	6" (15 cm)	3' (91 cm)	8" (20 cm)
33'(10 m)	30' (9 m)	6" (15 cm)	3' (91 cm)	8" (20 cm)
38.5'(12 m)	35' (11m)	7" (18 cm)	3.5' (107 cm)	9" (23 cm)
44'(14 m)	40' (12 m)	8" (20 cm)	4' (122 cm)	10" (25 cm)
49' (15 m)	45' (14 m)	10" (25 cm)	4' (122 cm)	12" (30 cm)
55'(17 m)	50' (15 m)	10" (25 cm)	5' (152 cm)	12" (30 cm)
66' (20 m)	60' (18 m)	12" (30 cm)	6' (183 cm)	14" (36 cm)
77' (24 m)	70' (21 m)	12" (30 cm)	7' (213 cm)	14" (36 cm)
88' (27 m)	80' (24 m)	12" (30 cm)	8' (244 cm)	14" (36 cm)
99' (30 m)	90' (27 m)	14" (35 cm)	9' (274 cm)	16" (41 cm)
110' (34 m)	100' (30 m)	16" (41 cm)	10' (305 cm)	18" (46 cm)

## 6 - Can I use Fast 2K with deck posts?

Yes, but as long as you use concrete deck footings. You could use Fast 2K as a backfill to fill the void around the post but only if you use "Buried Post Concrete Footings". Please check the building code in your area and consult with your local Building Dept. to see if buried post footings can be used. Please also make sure you dig below the frost line if the project is in an area with harsh winter. When used as a backfill, Fast 2K will reinforce the post & will help to block water from rotting the wood.

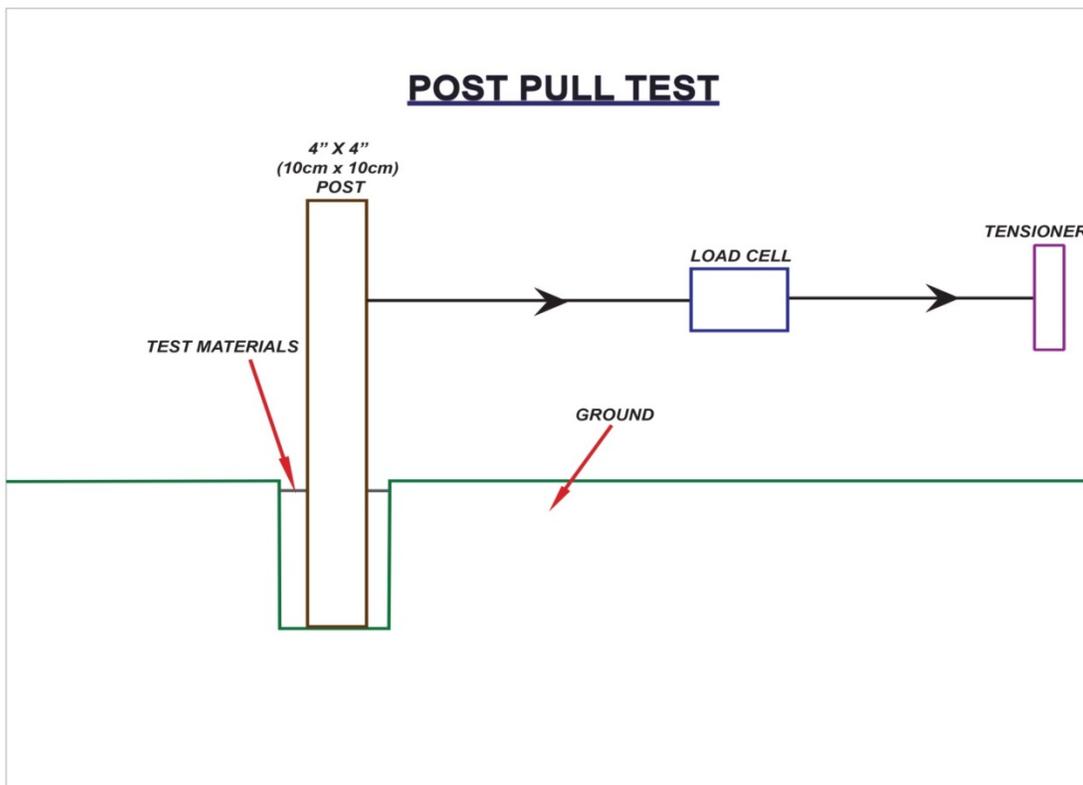
## 7 - What is the cost of a bag?

A bag of Fast 2K retails at different prices depending on the bag size and retailer. It is important to consider all installation costs as there are significant labor and time savings with Fast 2K when compared with most concrete installations. Another important point to consider is that as for the hole diameter, a minimum gap between the post and the hole wall is ideal for an installation with Fast 2K. For example, a hole of 6 in (15 cm) is ideal for the installation of a 4x4 in (15x15cm) post with Fast 2K. Concrete does not flow easily, so installers would have to dig 8" – 10" (20cm – 26cm) holes for the same installation and use 2 or more 50 lb (23 kg) bags of concrete per post.

## 8 - How strong is Fast 2K?

The Engineering behind Fast 2K uses the same technology applied to install utility poles. Once it is cured, Fast 2K becomes a waterproof composite with a strong adhesion to the post.

In our tests, we actually get better performance results with Fast 2K than with concrete in terms of resistance to lateral force. The post does not break as easily with Fast 2K as it does with concrete. Concrete is very rigid and has no give to it, so the total lateral force is on the wood post. Fast 2K absorbs some of the force and has a little give to it so the post does not break. Wood posts set with concrete typically break when 500-550 lbs of lateral force is applied. On the other hand, wood posts set with Fast 2K will not break until 600-750 lbs of lateral force is applied. In other words, a wind that produces a lateral force of 500-550 lbs will break the wood post when set with concrete, but it will not break a wood post that was set with Fast 2K. The figure below shows how tests were performed.



The compressive strength of Fast 2K is approximately 3-4 times higher than tamped soil. The soil is the “weak link” of the fence post installation. In other words, if a strong wind or a car hits a fence post, the ground will give or crack before any damage happens to the footing, no matter if the footing is made of a 50psi or 100psi or 10,000psi material.

### **9 - Does Fast 2K absorb water?**

Contrary to concrete, once it is cured Fast 2K is waterproof, so it will not absorb water. Therefore Fast 2K helps to protect the wood post from rotting and metal posts from corroding. For total protection, installers should wet the sides of the post with Fast 2K at least 18” (46cm) below ground and at least 6” (15cm) above ground.

### **10 - What should I do if there is water in the bottom of the hole?**

Make sure that there is no standing water in the hole before pouring Fast 2K. If there is water in the hole, wait until the water is absorbed by the surrounding soil. Alternatively, users can throw some dirt or cement powder into the hole to absorb the water. Remove water with a pump if time is of a concern.

### **11 - Is Fast 2K environmentally safe?**

Yes, once both components are mixed and cured the composite becomes a solid inert mass, incapable of leaching any chemicals into the soil or water table.

Treated wood posts do contain hazardous chemicals that can leach into the ground. Fast 2K seals around the wood post, preventing these chemicals from leaching out.

### **12 - Is Fast 2K approved by the building department / code?**

There is no need for approvals when using Fast 2K for residential or commercial fences and most other applications. You may want to consult your local Building Department for deck and other specific applications.

### **13 - Can I pour another bag of Fast 2K on the top of the first one?**

Yes, you can. Unlike concrete, Fast 2K will bond to itself. Wait until the composite from the first bag has finished rising before pouring the second bag on top.

### **14 - What happens if I mix Fast 2K and forget to cut the bag?**

Although bags may have a tear notch, always have scissors or a knife next to the hole ready to cut the corner of the bag IMMEDIATELY AFTER mixing is complete as indicated in the Instruction Sheet. Failure to cut the bag immediately after mixing will result in the composite expanding inside the bag which may cause the bag to rupture, contents to spray out and personal injury as well as property damage to occur. Mixing must be complete and bag must be cut in less than one minute from removing outer black clip.

## **15 - Do I need a builder or forming tube such as Sonotube® to use Fast 2K?**

No, you can pour directly into the ground without using such tubes.

## **16 - What happens if the Fast 2K bag is too cold or too warm before I mix it?**

Always keep Fast 2K bags at 72°F – 77°F (22°C – 25°C) for at least 2 hours before using. Product from bags kept at lower temperatures will take longer to react, expand and set, and will produce less volume. Product from bags kept at higher temperatures will react, expand and set faster, lowering the working time and producing a higher volume, weaker composite.

## **17 - How to remove Fast 2K from clothing?**

After Fast 2K cures, it is hard to remove it from clothing. You can try to remove it by carefully scrubbing it off with a pumice stone. Please keep in mind that this technique may damage the clothing.

## **18 - What is the difference between Fast 2K and spray foams?**

Fast 2K is a structural composite that is much stronger than the typical spray foam used around window and door frames. Another difference is when you cut cured spray foams you can see big holes inside. Fast 2K on the other hand, is a closed cell system that is also waterproof. Finally, Fast 2K is a 2-component system that sets in just a few minutes and is pretty strong in 15-30 minutes, whereas spray foams need the humidity in the air to cure which may take several hours.

## **19 - Can Fast 2K be stored in unheated premises during the winter?**

No. Although there have been no changes in properties of Fast 2K bags after 30 days at 5°F (-15 °C), we cannot guarantee the performance of the product if bags have not been protected from freezing. It is also important to keep in mind that bags must be acclimatized at 72°F – 77°F (22°C – 25°C) for at least 2 hours before using them.

## **20 - What is the compressive strength of Fast 2K?**

The Engineering behind Fast 2K uses the same technology applied to install utility poles. The compressive strength of Fast 2K is approximately 3-4 times higher than tamped soil.

What matters in a fence installation is not so much the compressive strength but actually how much the fence post will resist the lateral force of a strong wind for example. In our tests we actually get better performance results with Fast 2K than with concrete in terms of resistance to lateral force. The post does not break as easily with Fast 2K as it does with concrete. Concrete is very rigid and has no give to it, so the total lateral force is on the wood post. Fast 2K absorbs some of the force and has a little give to it so the post does not break.

Wood posts set with concrete typically break when 500-550 lbs of lateral force is applied. On the other hand, wood posts set with Fast 2K will not break until 600-750 lbs of lateral force is applied. In other words, a wind that produces a lateral force of 500-550 lbs will break the wood post when set with concrete, but it will not break a wood post that was set with Fast 2K. See answer to Question 8 for more details.

In addition, Fast 2K has a much higher adhesive strength to the post than concrete, making it much harder for the post to move laterally inside the Fast 2K footing compared to a concrete footing. Finally, contrary to concrete, Fast 2K is waterproof after it sets, so it helps protect the wood post from rotting.

## **21 - How would water drain with Fast 2K?**

Water will drain around the outer edge of cured Fast 2K. Contrary to concrete, once it is cured Fast 2K is waterproof so it will not absorb water, and therefore Fast 2K helps to protect the wood post from rotting.

## **22 - Would Fast 2K be affected by acid soil conditions?**

No. Acids will not affect the resilience of the composite. The composite will protect posts from decay if soil happens to be acidic.

## **23 - Can I use Fast 2K if it is raining during installation?**

No. It is best to use Fast 2K during dry conditions. However, if the posts are installed with Fast 2K and it rains before the fence can be built, there will be no issues at all. Contrary to concrete, once it is cured Fast 2K is waterproof.

## **24 - What is the R-value of Fast 2K?**

Fast 2K R-value is about -5-6/inch of thickness

## **25 - What is the hole diameter that is required when using Fast 2K to set a 4"x4" (10 cm x 10 cm) post vs. Concrete?**

When using concrete, a hole for a 4"x4" (10cmx10cm) post has to have a diameter of at least 8" (20cm). This is because concrete is very thick and cannot be placed in a smaller hole. There would be large air pockets in smaller holes, which would make the concrete very weak. You do not need an 8" (20cm) diameter hole to set a 4"x4" (10cmx10cm) post with Fast 2K. Actually, the post hole only needs to be slightly larger than the post on all sides. After being dispensed into the hole, Fast 2K will foam up and fill all the space between the post and the soil.

## **26 - What size of auger should be used when setting a 4"x4" (10cmx10cm) post with Fast 2K?**

An 8" (20cm) auger makes a hole with a 9" (23cm) or 10" (25.5cm) diameter. A 6" (15cm) auger does not make a 6" (15cm) hole- It will also make a larger hole. The diameter of the hole will depend on the quality of the soil and how straight the auger goes into the hole. To set a 4"x4" (10cmx10cm) post (it's really 3½"x3½"), a 4" (10cm) auger works well.

If 4" (10cm) augers are not available, a 6" auger is the next most economical alternative. One 16.5 fl oz (490mL) bag of Fast 2K will set a 4"x4" (10cmx10cm) in a 6" (15cm) diameter hole by 3' (91cm) deep.