



Thank-you for interest in Dexpan!

In this Information Kit you will find

1. Dexpan Usage instructions
2. Short Material Safety Sheet
3. Calculation/Order form
4. Volume discount chart

We look forward to hearing from you!

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DEXPAN USAGE INSTRUCTIONS

1) Drill 2) Mix 3) Fill

1) Drilling

- Drill holes using an appropriate drill for the rock or concrete type.
 - a. Electric hand held
 - b. Pneumatic hand held
 - c. Track mounted
- Holes should be drilled no further than 1 ft. apart.
 - a. **Note:** Depending on density of material spacing can be adjusted accordingly.
 - i. Reinforced concrete, granite and other extra hard materials, we recommend lessening the distance between holes, approximately 8" on center is recommended.
 - ii. For softer substances such as sandstone and concrete a larger distance between holes will work.
- Recommended hole diameter is 1.5" not to exceed 2"
- Drill holes should be 80-90% of the material depth

2) Mixing

- In a flat bottom bucket, combine 1.5ltr. of water with one 11lb. bag of Dexpan.
- Mix well (a drill and paddle is recommended). If mixing with a stick or other method, make sure Dexpan is completely dissolved into water. Mix to a slurry.

3) Filling

- Clean holes before filling using a compressed air hose or vacuum to remove excess dust and debris from drilling
- Ensure holes are dry
- Dexpan slurry should be poured into holes within 10-15 minutes after mixing
- Do not fill to the top, only fill the holes about 1 inch from the top.
- Pour Dexpan slurry into holes
- Use a thin stick or a rod (coat hanger sized) to agitating the Dexpan to make sure no air is trapped in holes
- A grout pump might be required to fill horizontal holes. Caps might be needed for horizontal holes to ensure Dexpan stays in place

Coverage: One 44lb. box of Dexpan can fill up to 35 lineal feet of 1.5" diameter holes. You might not have to fill every hole depending on application.

Cracking or Cutting Time: Spider cracks may appear after a few hours of filling holes, depending on ambient temperature, humidity, rock or concrete hardness. Typically it takes 24 hours to fully expand and may continue to expand up to 48 or 72 hours.

CAUTIONS:

- Read safety and operation instruction CAREFULLY.
- A pair of safety glasses, rubber gloves and a dust mask is required. Avoid eyes, skin contact. Do not breathe dust
- DO NOT look directly into filled holes as BLOWOUTS may occur.
- Keep Dexpan in DRY storage. Seal container after use
- Select correct type of Dexpan for your temperature range.

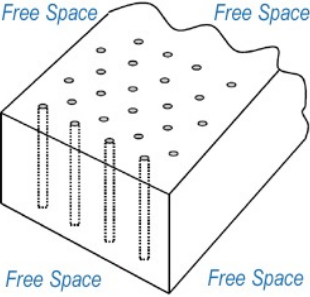
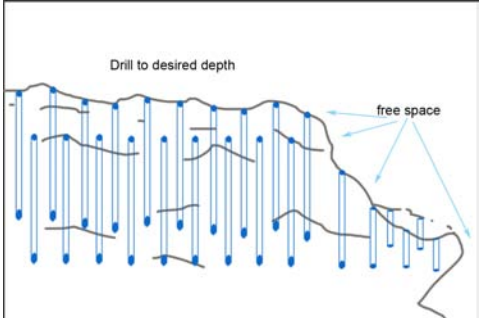
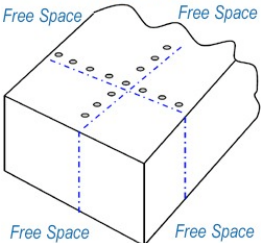
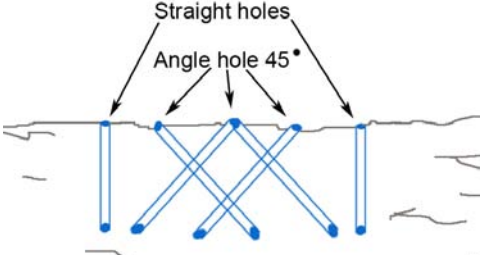
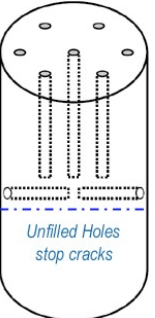
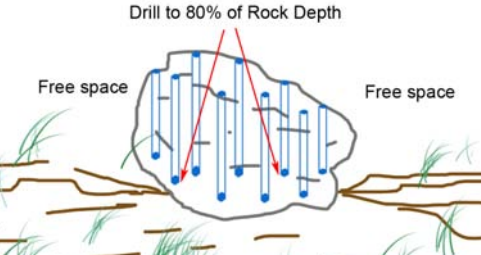
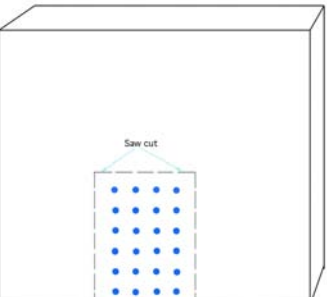
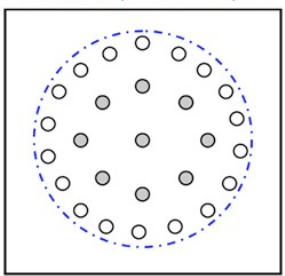


Usage Tips

- Well designed hole drilling pattern will minimize consumption of Dexpan by cutting into desired sizes
- To insure success, Dexpan needs Free space to expand
 - Free space: empty space beside the rock or concrete for the broken material to expand to...ie. Breaking a part of rock submersed in the earth does NOT have free space – a trenching drill pattern should be used – or taking out a strip of a concrete floor will not have free space, again, a trenching drill pattern should be used
- For better results, it is important to note both air and material temperature
 - Material temperature is the temperature inside the rock or concrete which be different from the air temperature
- In summer, the best time to use Dexpan is in the morning or evening when material temperature is cool
- In summer, cover holes from direct sunlight to avoid blow-out. Example: use a tarp or damp hay to provide shade
- If Dexpan *completely* dries into powder and did *NOT* crack, pour additional water onto Dexpan filled holes. This will reactivate the Dexpan.



Hole Drilling Design:

<p>Concrete Breaking</p> <p>Free Space</p>  <p>Free Space</p> <p>Free Space</p> <p>Free Space</p>	<p>Rock Breaking</p>  <p>Drill to desired depth</p> <p>free space</p>
<p>Concrete Splitting</p> <p>Dimension to Minimize Consumption</p> <p>Free Space</p>  <p>Free Space</p> <p>Free Space</p>	<p>Trenching</p> <p>Straight holes</p> <p>Angle hole 45°</p> 
<p>Column Breaking</p> <p>Free Space</p>  <p>Unfilled Holes stop cracks</p>	<p>Boulder Breaking</p> <p>Drill to 80% of Rock Depth</p> <p>Free space</p>  <p>Free space</p>
<p>Cutting and Removal</p> <p>Door and Window Openings</p>  <p>Saw cut</p>	<p>Tunnelling</p> <p>Unfilled holes provide free space</p> <p>Unfilled holes provide Free Space</p> 



Dexpan Brief Material Safety Information

Conforms to ANSI Z400.1-2004 Standard (United States, Canada, Mexico)

CAUTION: Hazardous to Humans and Domestic Animals

- ▶ Causes respiratory tract, eye and skin burns. Do not get in eyes or on skin or clothing. Do not breathe dust. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
- ▶ Composition / Information on ingredients:

Name	CAS number	%
Calcium Oxide	1305-78-8	60-100
Silica, Amorphous	60676-86-0	5-10
Iron (III) Oxide	1309-37-1	1-5
Aluminium Oxide	1344-28-1	1-5

First Aid +

- ▶ **Eye or Skin Contact:** Check for and remove any contact lenses. In case of contact, immediately flush eyes or skin with plenty of water for at least 20 minutes. Get medical attention immediately.
- ▶ **Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- ▶ **Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Environmental Precautions

- ▶ NO KNOWN significant effects or critical hazards.
- ▶ The product itself and its products of degradation are NOT toxic.

Storage and Waste Disposal

- ▶ Keep container tightly closed. Keep DRY in storage. Keep out of reach of children and pets.
- ▶ The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers.



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Volume Discount Guide

We are pleased to invite you to take advantage of our Volume Discounts. These discount are available **to:**

- The Mining Industry
- Contractors
- Corporations
- Municipalities
- Governments

Discount Table

# of Pallets	# of Boxes	Discount %	Retail Price/box	Discounted price/box	Savings/box	Total Cost	Total Saving
½ pallet	25	15%	\$149.00	\$127.48	\$22.49	\$3,186.50	\$562.25
1	50	30%	\$149.00	\$104.97	\$44.98	\$5,248.50	\$2,249.00
4	200	40%	\$149.00	\$89.97	\$59.98	\$17,994.00	\$11,996.00
8	400	50%	\$149.00	\$74.98	\$74.97	\$29,992.00	\$29,992.00

Other Benefits

Dexpan Canada is working to promote Dexpan across Canada as a must-have tool for Canadian Contractors from demolition to building and mining.

We are working hard to share job photo's and experiences via our web-site Dexpan.ca. In 2010 we will begin producing a bi-monthly newsletter with articles, industry advise, pictures and other related topics.

So... please send us your pictures and tell us about your experiences!