



A Product of Archer Company USA, Inc.

The Most Advanced Technology

# Non-Explosive Controlled Demolition Agent By providing silent expansive cracking

For Demolition, Reinforced Concrete Cutting, Excavating,  
Rock Breaking, Stone Quarrying, Mining and More ...

Distributed By:

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www.unitisonline.com



**Free Sample! \*Business Only**  
**Free Job Estimates!**  
**Free Drilling Designs!**

## HIGHLIGHTS

- Amazing 18,000 PSI expansive strength when mixed with water.
- Easy to use, just mix with water, pour into holes, then it expands.
- Cracks reinforced concrete and rocks safely and quietly.
- An alternative to blasting, diamond blade saw, hydraulic breaker and jackhammer, which is safer, more efficient, works without noise, vibration, or dust by providing silent expansive cracking.
- No special permits, insurance, training, or equipment needed.
- SDS (Safety Data Sheet) is available upon request.

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Archer Company USA Inc. / Dexpan® USA

Web: [www.Dexpan.com](http://www.Dexpan.com)

Tel: **575-528-5454** (Se Habla Español)



**Non-Explosive Controlled Demolition Agent**  
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## What is Dexpan®?

**Dexpan®** is a powder with amazing 18,000 PSI expansive strength when mixed with common water. Poured into holes, Dexpan® breaks reinforced concrete & rock safely and quietly, while providing *SILENT* cracking. Since Dexpan® provides controlled demolition according to drilling patterns, it is very easy to break reinforced concrete and all kinds of stone into desired sizes and shapes, without noise, vibration or dust.



- \* Packing I: 44 lb. box (includes Four 11 lb. bags)
- \* Packing II: 11 lb. plastic container
- \* Packing III: 44 lb. plastic container

**In the demolition, concrete cutting and excavating industry,** Dexpan® helps break reinforced concrete and rock into chunks, making the job easier to expose rebar to enable

cutting and removing without damaging existing areas / parts i.e. footings, foundations, walls.

**In the mining and quarrying industry,** Dexpan® helps to achieve almost perfect slabs and blocks from limestone, onyx, marble, granite or any other type of stone you are working with. Compared to blasting, Dexpan® helps conserve the waste of valuable stone, the cost of high insurance, costly storage, and labor.

Dexpan® can also be applied along with traditional methods like primer cord, hydraulic breakers, diamond blade saws and jackhammers to help cut cost, work time and increase safety. Dexpan® can make the job more efficient and cost effective.

## What can Dexpan® help you with?



### Demolition and Concrete Cutting

- ◆ Demolition of mass reinforced concrete, foundations for machinery, piers, pillars, beams, bridges, retaining walls
- ◆ Partial demolition of various concrete structures
- ◆ Reinforced concrete cutting



### Excavating and Rock Breaking

- ◆ Excavation of rock
- ◆ Splitting of boulders
- ◆ Rock and slab breaking for road expansion
  - ◆ For resident development
  - ◆ Excavation associated with tunneling
  - ◆ Trenching shaft sinking
- ◆ For various types of construction work



### Stone Quarrying and Dimension

- ◆ Non-Explosive limestone, onyx, marble, granite quarrying
- ◆ Controlled expansive cracking to avoid waste of Valuable stone



### Types of Dexpan®

(Depending on rock / concrete temperature)

- Dexpan® I** 77 to 104 F° (25 to 40 C°)
- Dexpan® II** 50 to 77 F° (10 to 25 C°)
- Dexpan® III** 23 to 50 F° (-5 to 10 C°)

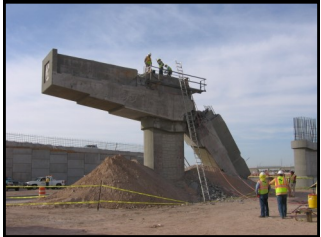


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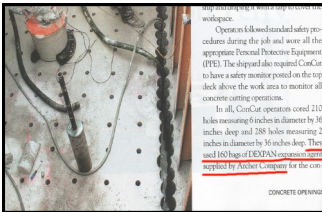
## Non-Explosive Demolition of Highway Bridge Piers

At Biggs Army Airfield, El Paso, Texas United States 2007



## Concrete Removal of Ferry Ballast

Concrete Opening Magazine, United States 2006



... and attaching it with a trip to cover the workspace.  
Operators followed standard safety procedures during the job and wore all the appropriate Personal Protective Equipment (PPE). The shipyard also required ConCut to have a safety monitor posted on the top deck above the work area to monitor all concrete cutting operations.  
In all, ConCut operators cored 213 holes measuring 6 inches in diameter by 36 inches deep and 288 holes measuring 2 inches in diameter by 36 inches deep. They used 160 bags of DEXPAN expansive agent supplied by Archer Company for the con-

CONCRETE OPENINGS





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## Noiseless Concrete Breaking in Residential Area

West Virginia, United States 2003



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## Interior Demolition of Concrete Foundation

Houston, TX United States 2009



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## Demolition of Street Light Posts

New Mexico, United States 2008





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## Demolition of Reinforced Concrete Foundations United States 2004



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## Demolition of Downstream Water Dam United States 2010



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## Swimming Pool Demolition United States 2005



## Non-Explosive Demolition of a School Stadium

Dallas, Texas United States 2002



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## Concrete Wall Demolition with Horizontal Holes

El Paso, Texas United States 2011



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## Removal of Concrete Wall that close to pumps & pipes

New York, United States 2003



The need for DEXPAN on this job was in an area where no pneumatic dust or noise was allowed and it was an area with pumps, the area was not accessible for machines.



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## **Non-Explosive Rock Blasting**

United States 2004



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## **Rock Removal for Swimming Pool Project**

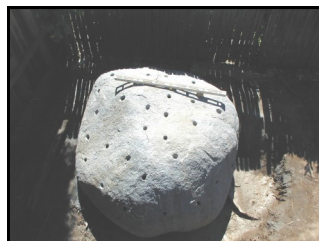
Molokai, Hawaii, United States 2008



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## **Granite Boulder Breaking**

United States 2004





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## Rock Breaking for Swimming Pool Project

United States 2004



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## Construction Site Preparation & Rock Breaking

United States 2005



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## Rock Trenching and Excavating

United States 2008







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## Non-Explosive Limestone Quarrying

Missouri, United States 2004



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## Non-Explosive Granite Quarrying

Idaho, United States 2004



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## Non-Explosive Limestone Quarrying

Arkansas, United States 2008





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## **Non-Explosive Marble Quarrying**

Torréon, Mexico 1995



## **Non-Explosive Sandstone Quarrying**



**Dexpan is Perfect for  
controlled mining and  
quarrying to avoid waste  
of valuable stone  
and to work safer.**

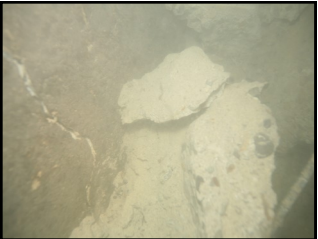


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### **\*Underwater Demolition of Bridge Piers**

United States 2007 \*Used plastic tubing to keep Dexpan from water.



### **\*Underwater Rock Breaking**

Cancun, Mexico 2007 \*Used plastic tubing to keep Dexpan from water.





Please ALWAYS wear



# Usage Instruction

Rubber Gloves Safety Goggles Dust Mask

**Concrete Demolition and Rock Breaking has never been EASIER!**

**3 Easy Steps to SUCCEED: Drill, Mix & Fill**

### 1) Drilling:

- Use **1.5 inches** (3.8 cm) drill bit, holes should be drilled **1 ft.** (30 cm) apart. 80-90% of the depth, do not go through. (Diagram 1)
- \* Using smaller drill bit will reduce Expanding Strength.
- \* Please call for applications with **depths less than 6 inch.**

### 2) Mixing:

- In a bucket, combine **0.4 gallons** (1.5 liters) of cold water with one 11 lb. (5 kg.) bag of Dexpan®. (Diagram 2)
- Mix well to a slurry, no lumps. (a drill and paddle is recommended)

### 3) Filling:

- Dexpan® slurry should be poured into holes within **10-15 minutes** after mixing. (Diagram 3)

### Coverage:

Normally one 11 lb. (5 kg.) bag of Dexpan® can fill up to **9 lineal feet** (2.5 meters) of 1.5 inches (3.8 cm) diameter holes.

### Cracking Or Breaking Time:

Properly mixed, the cracks may appear after 2~8 hours. Allow **24 hours** for best results. If Dexpan® completely dries into powder and did NOT crack, pour additional water onto filled holes. DO NOT remove Dexpan® from holes.

### **Warning! Improper use may cause serious injury** **Important Safety Precautions and First Aid:**

- **FORCEFUL BLOWOUTS may occur once mixed with water!** Keep a safe distance. DO NOT look directly into filled holes. Use of Dexpan® in hot weather could increase chances of blowouts. DO NOT pour into hot holes. Use iced water in summer.
- **Alkaline Burns may occur. DO NOT breathe in dust. AVOID eye and skin contact.** If eye or skin contact should occur, rinse it off IMMEDIATELY with plenty of water for at least 20 minutes, and consult doctor. Refer to SDS.
- Choose correct type of Dexpan **based on rock / concrete temperature.**
- Keep Dexpan® in DRY storage. Seal box / bag after use.
- Keep out of reach of children and pets.



1. Drill



2. Mix



3. Pour

SDS (Safety Data Sheet) is available upon request.

For technical support, Please call **575-528-5454** (Se Habla Español)

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### Limited Warranty

- For best results, drilling and mixing are critical to Dexpan®. First time users are highly recommended to call our FREE technical support group before use (Tel: 575-528-5454).
- All products of Archer Company USA (DBA Dexpan USA) are warranted to be free from defects in materials or workmanship for one year from the date of purchase.
- Within this period, Archer (Dexpan) will, at its sole option, replace any products that fail in proper and normal use. Such replacement will be made at no charge to the customer, provided that the customer shall be responsible for any transportation cost.
- This warranty does not cover failures due to abuse, misuse, accident, or unauthorized alterations. Always follow safety precautions and usage instruction on our website.
- Written description of problem and supporting job photos are necessary to warrant this claimer.

### Disclaimer

- Dexpan® may be used to break concrete including reinforced concrete, rocks including limestone, granite, marble, onyx, and flagstone. Call before you try on other material. (i.e. porous or decomposed rocks.)
- Breakage or cracks vary due to drilling pattern done by customer. Archer (Dexpan) is not responsible for any unexpected results.
- Cracking Time is not guaranteed. Allow at least 24 hours for complete set time. Archer (Dexpan) is not responsible for any job delay lost.

### Procedure for Claims under Limited Warranty

Archer (Dexpan) will help customer to resolve the problem:

- In the event Dexpan® does not work, allow an extra 48 hours. If it fails after 48 hours, contact technical support before you try other means. Do not remove Dexpan® from holes. This may void the warranty if the Dexpan® is removed.
- Take photos showing job was done according to proper procedures. A written description showing purpose of the job, dimensions, drilling patterns, depth of holes, water mixing rate, weather and temperature. Both description and job photos are necessary to obtain warranty service.
- Archer (Dexpan) gives customer an analysis report showing what could be the problem. Onsite technical support may be requested for larger projects.
- Archer (Dexpan) will honor this warranty based on the evidence provided and approval.

Video 1: What is Dexpan?

Video 2: How to use Dexpan?





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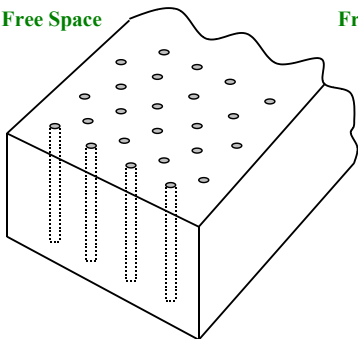
**More Info:** (call 575-528-5454 if you have any questions)

- **Well Designed Hole Drilling Pattern** will minimize consumption of Dexpan® by cutting into desired sizes.
- To insure success, drilled perimeter holes or angled holes may be needed to provide **Expansion Space**.
- For better results, it is important to note both air and material temperature. Material temperature is the temperature inside of the rock or concrete which can be different from the air temperature.
- In summer, Dexpan® should be used in the morning when material temperature is cool.
- In summer, provide shade to filled holes. But allow the holes to have space to breathe. **DO NOT** Plug or constrict holes.
- If Dexpan® completely dries into powder and did **NOT** crack, pour additional water onto Dexpan® filled holes.

### Hole Drilling Designs:

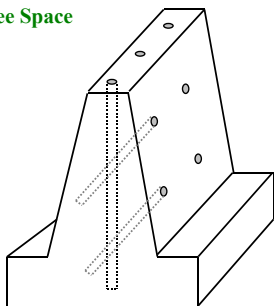
**Objects have Free Space for Dexpan to Expand to:**

**Free Space**



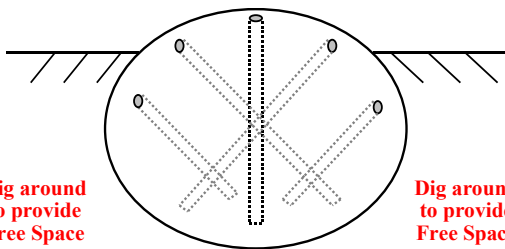
Drill Holes vertically for Regular shapes

**Free Space**



Drill Holes at an angle for Irregular shapes

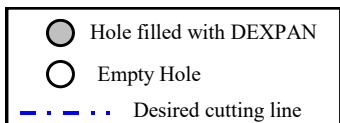
**Objects DO NOT have Free Space for Dexpan to Expand to:**



**Dig around to provide Free Space**

**Dig around to provide Free Space**

Underground rock Excavation



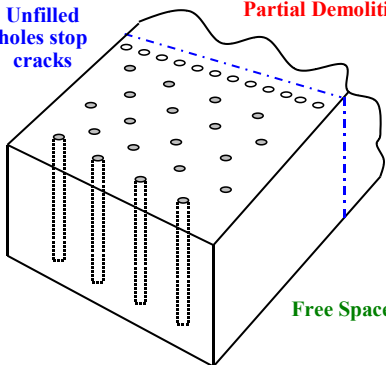


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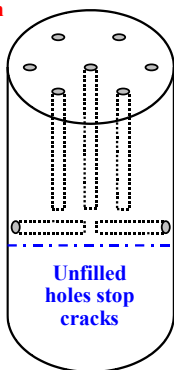
For Demolition, Reinforced Concrete Cutting, Excavating,  
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Unfilled  
holes stop  
cracks

**Partial Demolition**



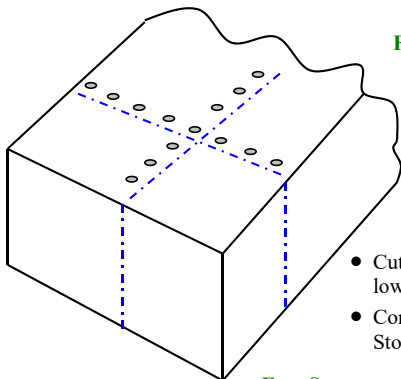
Free Space



Unfilled  
holes stop  
cracks

Partial Demolition with  
Vertical desired cutting line

Partial Demolition with  
Horizontal desired cutting line

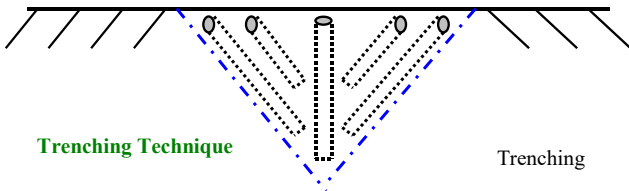


Free Space

**Well Designed  
Drilling Patterns  
can make your work  
more effective!**

- Cut into desired size to lower cost.
- Controlled Breaking for Stone Quarrying.

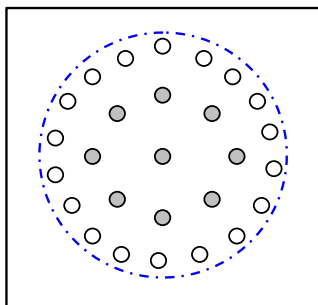
Free Space



Trenching Technique

Trenching

**Tunneling  
Technique**



Unfilled holes  
provide  
Free Space

Tunneling

## Premium Quality Diamond Tools

For both Construction and Stone Fabricating

**FREE SHIPPING**  
on orders over \$199

\*Only valid in the lower 48 U.S. States



### Diamond Blades

- General Purpose Blades, Demolition Blades
- Concrete Blades, Asphalt Blades
- Tile Blades, Masonry Blades, Granite Blades
- Crack Chaser, Tuck Pointing Blades
- Bridge Saw Blades, Ductile Iron Blades, Ring Saw Blades

### Diamond Wire

- Diamond Wires for sawing reinforced concrete, granite & marble

### Core Bits

- Concrete Core Bits
- Stone Core Bits

### Diamond Grinding Tools

- Cup Wheels, Drum Wheels
- Antique Brushes, Diamond Burr Sculpting Kit
- Floor Grinding Plates, Grinding Blocks, Grinding Shoes

### Polishing Pads

- 3-STEP, Dry Use and Wet Use Polishing Pads, Convex Polish Pads
- Backers
- Concrete Floor Polishing Discs

### Router Bits

- Router Bits for Portable Routers with M8 or M10 Adaptors
- Router Bits for Angle Grinders with 5/8"-11 Thread