



# DEXPAN Non-Explosive, Controlled, Breaking, Cutting and Demolition Agent.

For Local Distributors visit our Website: [www.DexpanInternational.com](http://www.DexpanInternational.com)

For Demolition, Concrete Cutting, Rock Breaking, Granite-Limestone-Marble Quarrying; Mining ...

Powered by the *most advanced technology*



*Non-Explosive Controlled Demolition*

## What are the advantages of Dexpan?

- ❑ **Amazing Expansive Capability:** Breaks reinforced concrete, rock, marble, granite, limestone or any material you are working with.
- ❑ **Easy to Use:** Just mix with water and then fill into holes.
- ❑ **Non-Explosive:** Much safer than explosives, does the job with NO Noise, NO Vibration, NO Flying Rocks and NO Toxic Gases.
- ❑ **Works Efficiently and Cost Effectively:** No Special License, training or equipment needed.
- ❑ **Environmentally Friendly Product:** Safety Data Sheet available.

## What is Dexpan?

**DEXPAN** is a Non-Explosive, Controlled Demolition Agent. **DEXPAN** is used for Demolition, Excavation, Quarrying, Rock Breaking and Concrete Cutting. **DEXPAN** is packed in moisture-proof boxes, Size: (38cm x 28cm x 18cm), Weight: 20kg, with every box containing four plastic bags each holding 5kgs of Dexpan powder. **DEXPAN**, once mixed with clean water is poured into holes pre-drilled in the material you are working with, i.e. it can be poured into the same holes where dangerous explosives are usually placed. **DEXPAN** can do more work safely, while providing controlled expansive cracking. **DEXPAN** can also be used to achieve perfect slabs, and blocks from Limestone, Marble, Granite, Sandstone or whatever material you are working with. **DEXPAN** can be applied in the field where cracking by means of explosives is not suitable. **DEXPAN** makes clean up on the job site safer, faster and easier to stay within environmental and Local Health and Safety regulations. **DEXPAN's** environmental implications are obvious: (i) Little Clean - Up, (ii) Dissolves in water after use, (iii) No Chemical Residue and (iv) No Gaseous Fumes. **DEXPAN** is safe to use in close quarters, where large equipment cannot reach and dust contamination is totally out of the question. **DEXPAN** is there to help cut cost & increase safety. When explosives have to be used, it can be used to structurally weaken buildings in order to use less explosives and to help ensure an even safer collapse.

## What can Dexpan help you with?

### Demolition, Reinforced Concrete Cutting, Demolition of Abandoned Buildings, Deconstruction...

- ◆ Demolition of mass concrete ◆ Demolition of foundations for machinery and structures
- ◆ Pillar, beam, wall or slab of bridges demolition ◆ Demolition of temporary concrete structures ◆ Demolition of piers
- ◆ Demolition of retaining wall ◆ Partial demolition of various concrete structures

### Excavating, Rock and Stone Breaking, Road Paving, Tunnel Excavating, Demolition under water...

- ◆ Excavation of rock wall or bedrock ◆ Splitting of boulders ◆ Slab ◆ For road expansion ◆ For resident development ◆ Excavation associated with tunneling ◆ Trenching shaft sinking ◆ For various types of construction work

### Limestone, Sandstone, Marble and Granite Quarrying, Mining ...

- ◆ Non-Explosive Quarrying ◆ Controlled Cutting to avoid waste of Valuable Material



**Non-Explosive Demolition Agent**



**1. Demolition, Excavating, Remodeling Building Deconstruction**



**2. Breaking Reinforced Concrete, Cement, Rock, Limestone**



**3. Granite, Limestone & Marble Quarrying, Mining Avoid waste of valuable material**



**4. Other Demolition Work Where you can NOT use Explosives Or Traditional Equipment**

**Types of Dexpan:**

Depending on temperature, there are three types of **DEXPAN**:

- Dexpan I** – (usable temperature of C° 25/40)
- Dexpan II** – (usable temperature of C° 10/25)
- Dexpan III** – (usable temperature of C° -5/10)

**Drilling and Mixing:**

**A. Drilling:**

Drill hole with an air drill according to the requirements of design.

- Hole Diameter: 38mm - 50mm (1½” – 2”)
- Hole Spacing: 30cm – 60cm (1ft – 2ft) apart,
- Depth Required: 70 -95% of depth, (don't go through the material)



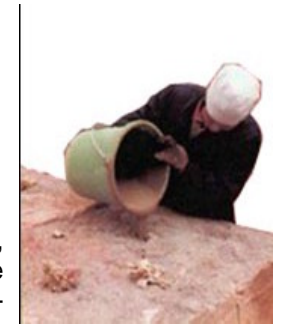
Drilling Holes

**B. Mixing:**

- For a small amount of **DEXPAN**, mixed by hand, use rubber gloves.
- For the best result, use drill with a paddle to mix it well.
- Pour about 1.5 liter clean water into a container and add one bag of **DEXPAN** (5kg).

**C. Filling:**

- Clean up the holes before filling, you may use a blowpipe to get rid of the dust in holes.
- **DEXPAN** slurry should be poured into hole with in 10 minutes after mixing.
- For horizontal holes, a grouting pump and a plug for stopping are required.



Filling Holes

**D. Cracking:**

Cracks can appear in as little as 45min after filling, depending on weather, type of rock & concrete temperature. The cracks become wider with time (48hr+ expanding time).

**E. Recommendations:**

- A pair of safety goggles, rubber gloves and Dust-proof mask is recommended when working.
- After filling, DO NOT look at any hole directly.
- Keep **DEXPAN** in dry storage.
- Choose the correct **DEXPAN** type for the weather.

**Usage Tips:**

1. Mix well and pour into holes while agitating the hole to make sure no air gaps are in the hole. Example: using a piece of rod or stick to poke holes.
2. Fill the hole almost to the top, stop at least 15mm (½ inch) from the top.
3. In the summer, the best time to use **DEXPAN** is early in the morning or evening when temperature of material is low.
4. In the summer, cover holes to avoid direct sunlight. Example: using a tarp
5. Depending on the material, you may be able to mix **DEXPAN** with more water to lower your cost.

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