

# BRISTAR

## Non Explosive Demolition Agent

### Description of Product

POWER BRISTAR is a soundless and environmentally safe, non-explosive demolition agent. It does not cause any flyrock, noise, ground vibration, gas, dust or environmental pollution.

POWER BRISTAR creates systematic cracking in rock and concrete making secondary breaking easier and quicker to complete.

### Fields of Application

- POWER BRISTAR is ideally suited for all demolition work but particularly where the use of explosives will cause damage, pollution, danger or inconvenience to the surrounding environment.
- Quarries, demolition works, breaking out before concrete repair and mining are some of the areas where POWER BRISTAR will save the user time, money and inconvenience.

### Features and Benefits

- Noise and vibration free.
- Environmentally friendly, no dust, flyrock, gas or debris.
- Easy to mix with drill and paddle.
- Less hazardous than conventional methods.
- No licence or special expertise required for usage.
- Expansive stress of more than 30N/mm<sup>2</sup>
- Economical - savings in manpower, product cost and removal of waste.
- No special security required for storage.

### Technical Data/Typical Properties

#### Grade:

GRADE	APPLICATION TEMPERATURE
	Maximum
POWER BRISTAR	25°C (77°F)

### Quantity of POWER BRISTAR used per 1m length of hole diameters:

Hole Diameter (mm)	POWER BRISTAR (Kg/m)
36	1.7
38	1.9
40	2.1
42	2.3
44	2.5
46	2.8
48	3.0
50	3.2
Hole Diameter (inch)	BRISTAR (lb/yd)
1 3/8	3.1
1 1/2	3.7
1 5/8	4.4
1 3/4	5.1
1 7/8	5.8
2	6.7

### Application Procedure

#### Preparation of Substrate

##### Hole spacing and Hole depth:

Hole spacing will vary depending on the type of rock boulder or concrete etc. to be removed. The following tables however provide guidelines to work from.

##### Hole depth:

Kind of object	Hole depth
Rock / Boulder	80% of height
Concrete	90% of height

##### Hole spacing:

Rock	Hole spacing
Hard Virgin Rock	40 - 60 cm
Soft Virgin Rock	50 - 70 cm
Concrete	Hole spacing
Unreinforced Concrete	40 - 70 cm
Reinforced Concrete	20 - 40 cm (dependent on quantity of Re-bars)

##### Hole diameter:

In all cases the minimum hole diameter should be 36mm. The larger the hole diameter is, the greater the expansive stress becomes. The hole size however is recommended to be no greater than 50mm diameter.



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#### Mixing Equipment

- 1) 10-20 Ltr metal or plastic bucket.
- 2) Measuring beaker
- 3) Protective rubber gloves and goggles.
- 4) Mechanical mixer and paddle.

#### Mixing

Pour approximately 1.0 Ltrs of clean water into the container adding one 5kg bag of POWER BRISTAR gradually and mix well for approximately 2-3 minutes until a lump free consistency is obtained.

#### Application

- 1) POWER BRISTAR should be placed within 2 minutes of mixing.
- 2) Drill horizontal holes with a slight slope to help in filling
- 3) Once the POWER BRISTAR'S fluidity is gone it should not be re-mixed with water as the strength is greatly reduced.
- 4) POWER BRISTAR must be poured into the hole to its brim.
- 5) Spraying the surface with water and keeping it wet after the cracks initiate tends to increase the width of cracks and speeds the cracking process.
- 6) Covering the filled hole with a plastic cover is desirable to avoid dilution of POWER BRISTAR from external water source until cracking starts.

#### Coverage

As per guidelines.

#### Packaging

POWER BRISTAR is available in 5kg packs.

#### Storage

Up to 1 year in accordance with manufacturer's instructions for use. Store in cool, dry conditions as for cement. If a part bag is used, push the air out of the bag and seal it with tape. Use it as soon as possible. Keep out of reach of children.

#### Shelf Life

The shelf life is 12 months minimum.

#### Watchpoints

- 1) When mixing and filling holes always wear rubber gloves, safety glasses and helmet.
- 2) Do not use for other purposes besides the cracking of rocks or concrete.
- 3) Rinse with water when any portion of the skin comes into contact with POWER BRISTAR.
- 4) Do not look directly into holes filled with POWER BRISTAR for at least 8 hours after pouring.
- 5) Whenever possible keep filled holes covered for protection.
- 6) Ensure the area is suitably isolated prior to commencement of works.

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#### Health and Safety

\*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

#### Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

#### Spillage

Chemical products can cause damage; clean spillage immediately.

#### Disclaimer:

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