

HEY'DI PRODUCT DATA SHEET

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TROLLKRAFT

Expanding cement for breaking rock and concrete.



Description and Characteristics

Hey'di Trollkraft is a special cement which, when mixed with water, develops an enormous expansive force - up to 9,000 tonnes per sq.m - to achieve silent and safe cracking and demolition of rock and concrete. Hey'di Trollkraft emits no gases.

Areas of Use

Hey'di Trollkraft may be used both indoors and outdoors, in enclosed spaces, under water and generally wherever the use of dynamite or heavy machinery is undesirable.

Temperature

The temperature of the object to be demolished must be between 0 and +20 °C. The hole temperature must not exceed +20 °C as higher temperatures may cause compound blow-out, so avoid using Hey'di Trollkraft in hot and sunny weather. If the work cannot be postponed, cool the drilled holes using cold water, removing the water before pouring the compound down the hole.

Mixing

Mix Hey'di Trollkraft with cold water, pouring the water into the mixing tub first. **Note:** Water temperature is never to exceed +15 °C. Use between 24 and 28 per cent water 6 to 7 dl to one 2½ kg package or 1,2 to 1,4 litre to one 5 kg package. Do not mix more than 5 kg at a time. Mix using a drill with a mixer attachment for about two minutes, until the compound has an even and fluid consistency. The compound will seem dry when mixing begins. **DO NOT ADD MORE WATER.** The compound becomes more liquid as you stir it. The mixed compound must be used immediately.

Application

Pour the fluid mortar into the holes using a funnel, or direct from the mixing tub. Always fill the holes completely and cover them from rain or sunlight to prevent blowout caused by overheating. If there is water in the drilled holes, a thin polyethylene hose of equal diameter may be pushed into the hole and filled with Hey'di Trollkraft. Tie a knot on the end of the hose. An alternative is to use a stiff hose - such as a garden hose - to fill the hole from the bottom, forcing the water out as the hole is filled. Old concrete is often so dry that the water in Hey'di Trollkraft is drained off before the compound has time to harden. In such cases, a polyethylene hose may be used to first fill the holes with water, letting them rest for a few hours. Then blow out the water and follow the described procedure.

Effective Time

When the drilled holes have been filled with Hey'di Trollkraft, cracking will occur over a period lasting from hours to days, depending on temperature, hole diameter, the number of holes and the strength of the material to be demolished. Fully hardened Hey'di Trollkraft will take the form of a powder.

Approximate consumption per metre hole:

25 mm diameter: 0,85 to 0,9 kg
30 mm diameter: 1,25 to 1,5 kg
40 mm diameter: 2,20 to 2,25 kg

Preparation

Holes are drilled using a powerful electric or pneumatic drill. The recommended hole diameter is from 25-40 mm up to a maximum of 45 mm, the bigger the hole, the greater the expansive force.

TECHNICAL DATA

Expansive force :.....9,000 tonnes per sq.m

PRODUCT INFORMATION

Hey'di item number:

2,5 kilo:..... 201
5 kilo:..... 203
10 kilo:..... 202

GTIN nr:

2,5 kilo:..... 7054150000185
5 kilo:..... 7054150002035
10 kilo:..... 7054150000192

Work Hygiene/Precautions

The product contains cement which, when mixed with water, may cause corrosive to the skin and eye, nose and throat mucous membranes. Always read the warning on the packaging before starting work.

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Recommended distance between holes is 5 to 10 times the hole diameter, i.e. 15 to 40 cm. The distance from the outer hole to the edge should be half the distance between the holes. Hole depth should be a minimum of 75 per cent when demolishing free-standing blocks, minimum hole depth is 30 cm. Remember to cover up the holes so they will not fill up with water.

Safety Precautions

Glass or steel containers must never be filled with Hey'di Trollkraft. Do not stand close to the holes during the first hours after filling them with Hey'di Trollkraft. Overheating may cause the compound to blow out. Leftover Hey'di Trollkraft powder must not be treated as normal waste, destroy using large amounts of cold water. Never use warm or hot water and cover where the compound may be exposed to direct sunlight. Close off any area where cracking could lead to falling concrete or rock inflicting personal injury. After drilling, wait for holes to cool before pouring the compound.

Avoid skin contact. Wear safety goggles, rubber gloves and safety helmet.

In the event of skin contact, rinse with generous quantities of water. In the event

of contact with eyes, rinse with water and seek medical assistance. This also applies to the fully hardened product. If Hey'di Trollkraft has entered the throat or stomach, drink lots of water and seek medical assistance. Keep the product out of the reach of children. See hazard marking.

How to Drill

The expansive force of Hey'di Trollkraft impacts at right angles to the direction of the drilled hole. It is therefore important to drill the holes to ensure maximum effect of the expansive force against the free-standing surface. Remember that the tensile strength of rock and stone may be hard to assess and will vary considerably; therefore, do not use drill bits of less than 25 mm diameter, the ideal size is 40 mm. Where there are many cracks already in the rock, these may to some extent assimilate the expansion and thus reduce the effect of Hey'di Trollkraft.

Note: If correctly mixed, Hey'di Trollkraft will always provide the described expansive force. If you do not achieve the desired result, it is because these instructions were not followed.

Packaging

2,5 kg box, 5 and 10 kg pail.

