Non-explosive mixture for disconnecting fixed systems

CEVAMIT is a non-explosive, dry, powdered mixture designed to break up solid structures such as rock, concrete, masonry. etc. This mixture can only be used to disconnect materials that are subjected to tensile stresses that cause brittle fracture. This mixture can therefore be used to disconnect. e.g. plastic materials.

CEVAMIT is basically a special mortar mixture which, when mixed with water in a certain proportion, hydrates and at the same time increases its volume due to the formation of a new compacted structure. This creates a crystallisation pressure of **30 to 40 MPa**.

CEVAMIT is produced according to the company standard PNR 72 24 61 in two modifications, as a **summer mix** for temperatures from +10°C to +40°C and as a **winter mix** for temperatures from -5°C to +10°C.

Distribution

Cevamite summer - CEVAMIT-L
for use at temperatures from +10 °C to +40 °C

Cevamit winter - CEVAMIT-Z
for use at temperatures from -5°C to +10°C

Use

for disconnecting stones, rocks, concrete, masonry, etc.

no unwanted side effects (pressure wave, seismic and acoustic effects, flying debris, etc.)

Technical parameters

according to PRN 72 2461

Packaging

- 5 kg (PE bucket with handle)
- 25 kg (PE bags)
- Pallet (40x 25 kg bag)

Identical packaging for both summer and winter mixes.

Producer

Calmit, spol. s.r.o.
Gaštanová 15
811 04 Bratislava

Exclusive sale for the Czech Republic

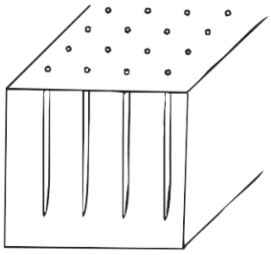
CEVAMIT.COM, Lukáš Urbanec,
Michálkovická 2098/86B,
710 00 Ostrava - Slezská Ostrava

Contact details

- Phone: +420 603 357 606
- Mail: info@cevamit.com

Method and conditions of use of CEVAMIT

- First, holes are drilled into the solid system (concrete, rock, masonry, etc.) with a length equal to 80% of its height or length or width. The minimum diameter of the holes is 30 mm. and the maximum diameter of the hole is 105 mm (if the diameter is 60 mm or more, the hole must be properly plugged after pouring the mix)



Destruction of the concrete structure

- **Mix CEVAMIT with water in a ratio of 1:0.3**, i.e. for 100% by weight of CEVAMIT, 30% by weight of water is used. For example, 10 kg of CEVAMIT is mixed with 3 l (kg) of water. The suspension thus prepared is filled into the holes. The boreholes are generally filled up to their mouths.

- In approximately 1 hour, the suspension in the drill holes solidifies and begins to hydrate. During hydration, the slurry expands, causing compressive stress on the borehole walls and subsequent fracture formation and propagation to complete disconnection of the solid system in the plane of the drilled holes. The hydration process takes up to 7 days, but **in 24 hours the expansion stress reaches approximately 30 MPa**.

  Since rocks, concretes, etc. are subjected to tensile stress in this method of uncoupling and the tensile strength of rocks is only 5 to 10 % of their compressive strength, the resulting tensile stress is sufficient to overcome their ultimate tensile strength. The length of the uncoupling time of a given solid system is influenced mainly by its temperature, position, number of drilled holes and their diameter, etc. The **disconnection of** a given system **usually occurs in 6 to 24 hours**. In extreme cases (low temperature, non-compliance with the technological procedure, etc.) the time may be even longer. The subsequent effect of CEVAMIT uncoupling is manifested by the formation of cracks in the uncoupling system.