

Neocrack®

Non-explosive demolition mortar

Properties

It causes breakage in a safe manner, without explosion. It is suitable for construction projects where explosives cannot be used for safety reasons. As an effect of hydration **Neocrack®** generates a progressive expansive power more than 7500 Tn/m^2 .

Technical Characteristics

Color

Grey

Mixing ratio (weight): Neocrack®/water

~ 4/1

Consumption

Concrete: $5\text{-}10 \text{ Kg/m}^3$

Concrete with reinforcement: $20\text{-}30 \text{ Kg/m}^3$

Rock: $4\text{-}20 \text{ Kg/m}^3$ (depends on the hardness and the structure)

Instructions for use

Mix **Neocrack®** with 26-30% cold water until a uniform mass without lumps is created. Water temperature must be up to $+10^\circ\text{C}$ especially in summer period and $+15^\circ\text{C}$ in the winter period. Drill the holes with an electrical drill to the diameter and depth required. Fill the holes completely. The mortar should be applied within a maximum of 15 minutes.

For vertical holes leave a space on the top of 3 cm. For horizontal holes loading, you should encapsulate Neocrack using a plastic tube. Otherwise drill the holes at a slight angle in order to allow loading to be done by gravity. Plug the hole with fast setting mortar **Neorep® Rapid** or **Neostop®**. In this procedure is important to avoid mixing Neocrack with other cement mortar. For underwater application the product may be encapsulated in plastic tube. Otherwise use a loading pump in order to fill the holes. The time of application avoid the high ambient temperatures.

The holes depth depends on the shape and the nature of the element to be broken and must be almost the whole of the element. The diameter of holes must be 30mm up to 50 mm. A diameter of 40 mm it works effectively in most projects. A simply way to estimate the distance between holes performs bellow.

D (mm): holes diameter

L (cm): spacing between holes

Min $L=D$, Max $L=D+10$

Example: for hole diameter $D= 40\text{mm}$, distance L must be maximum $(D+10)=(40+10)\text{cm}=50\text{cm}$ and minimum 40cm.

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Neocrack[®]

Notes

- Do not apply **Neocrack[®]** on frozen surfaces
- Always add the water to the powder
- Do not put the face near to the hole because there is a possibility of sudden output of Neocrack under special conditions (hole diameter >50mm and ambient temperature >25 °C and water temperature >+10 °C)
- The breakage will occur 12-48 hours after the application and the final expansion will be achieved in 4 days.

Cleaning of tools

Use plenty of water immediately after application.

Packing

15kg in plastic containers

Storage stability

12 months in its original unopened container. It must be stored in absolutely dry place protected from frost and humidity.