

**MINING / CONSTRUCTION / ENERGY**

# Minostop

**RAPID SETTING, WATER LEAK PLUGGING MORTAR**

**DESCRIPTION**

Minostop is a ready to use blend of dry powders which requires only the site addition of clean water to produce a highly compacted, rapid setting mortar which is easy to apply. The material is based on a blend of cements, graded aggregates, special fillers and chemical additives which control the rate of set and minimise the risk of shrinkage cracking.

**APPLICATION AND USE**

- Active water stopping capability
- Isolation and reinforcing of walls, floor and roof of excavations, reservoirs and tunnels
- Excellent bond to the substrate

**ADVANTAGES**

- Possible to apply on damp surfaces or even on an active water
- Resistance to aggressive waters
- Water-and gas- tightness
- Rapid-setting
- Non-combustibility
- Ease and safety of use
- Excellent bond to the substrate



**TECHNICAL DATA**

The data below are laboratory data. They may vary in practice due to surface properties of the substrate, humidity, pressure, and other factors.

**PRODUCT CHARACTERISTICS**

Parameter	Minostop
Compressive strength @ 1 h <sup>1</sup>	6 MPa
Compressive strength @ 28 d <sup>1</sup>	40 MPa
Workability	plastic
Set time / pot life <sup>1</sup>	60 sec
Density	2250 ± 100 kg/m <sup>3</sup>
Flammability	Non-flammable (A1)

1. at 20 °C

**COMPONENT CHARACTERISTICS**

Parameter	Minostop
Colour / form	grey-brownish powder
Particle size	< 1.0 mm
Water per 25 kg bag	4 liter / 20kg
Consumption	2.0 kg/m <sup>2</sup> /mm

**APPLICATION METHOD**

1. Surface preparation

The surface to be covered should be thoroughly cleaned to remove any dust and loose particles. After cleaning the surface should remain damp. Areas to be patched should be cut back to a depth of 15mm and given a good mechanical key. Feather edges must not be allowed. To seal leaks, crack openings must be chased out to approximately 20mm. The chase should always be undercut to avoid leaving a V-section.

Applying onto active water leaks is possible but in case of major water leaks from the ground,

eliminate them by injecting organic adhesives (eg. Ekopur HW, Krzemopur S). As the auxiliary method in case of large leaks, a water intake with drainage pipe may be used. Substrate and air temperature during application and 7 days after the application should be above 5°C.

2. Equipment

In hand application mix in a suitable container using a trowel or gloved hand. For machine application of Minostop, use shotcreting equipment designed for dry-spray method. Controlled feeding speed is highly recommended.

3. Application

Minostop should be added to clean water in the following proportions : One part clean water : 3 parts Minobond (measured by volume ). It corresponds to water/powder ratio 0.2.

Trowel apply or hand-knead the mixed mortar in place, ensuring maximum contact with the substrate before the material sets. If being used to plug running water, Minostop should be used and held in place until the initial set is reached.

For application the distance from the surface should be between 1.5 m to 2.5 m. The nozzle should be continuously moved in small circular movements which follow parallel strokes along the sprayed area to get a tight lining with the correct, continuous thickness. In this way a systematic progressive coverage of the area is achieved with the required thick layer in one pass.

4. Cleaning

For soft material use water. Cured material can only be removed mechanically.

Cleaning of the nozzle with water should be done after each application. On completion of the application the pump and all associated equipment should be thoroughly cleaned with compressed air.

**SAFETY INSTRUCTIONS AND LIMITATIONS**

It is recommended that gloves, eye protection and a dust mask are worn when using Minostop. For more details refer to our Material Safety Data Sheet.

Do not expose young concrete (up to 7 days) to frost.

## **PACKAGING AND TRANSPORTATION**

20kg plastic bucket / 25 pcs per pallet or 25 kg valve sack / 40 bags per pallet. Other packing on request.

## **STORAGE AND SHELF LIFE**

Shelf life 6 months when stored in dry and cool conditions (between 5 and 40°C).

## **DISPOSAL**

Follow local regulations.

## **APPROVALS AND CERTIFICATES**

1. Hygienic Certificate HK/B/0084/01/2017

## **DISCLAIMER**

The Minova Logo is a registered trademark.

Copyright © 2019 Minova. All rights reserved

All information contained in this document is provided for informational purposes only and is subject to change without notice. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Minova specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.

ME-NS/TE/03/33-01/ Minostop e01 (September 2008)

## **ADDITIONAL DOCUMENTATION**

- Minostop MSDS

## **LIST OF REPRESENTATIVES**

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
- RUSSIA: ZAO "Carbo-ZAKK"
- SLOVAKIA: Minova Bohemia s. r. o., organizačná zložka
- SOUTH AFRICA: Minova Africa (Pty) Ltd.
- SPAIN: Minova Codiv S.L.U.
- SWEDEN / NORWAY: Minova Nordic AB
- UNITED KINGDOM: Minova Weldgrip Ltd.; Minova International Ltd.
- APAC: Minova Australia Pty Ltd.
- AMERICAS: Minova USA Inc.

## **CUSTOMER SERVICE**

For additional support options available at your area, contact our local offices.

[www.minovaglobal.com](http://www.minovaglobal.com)