



# Centrament Rapid

(Formally Known as Centrament Rapid 640)

Alkali-Free, Liquid Shotcrete Aid

## Product Properties

- Causes fast setting
- Little reduction of the final strength
- Accelerates the work-process by allowing a layer-thickness of 15 to 20 cm per work-step
- Reduces dust-formation
- Possible acceleration of concrete with a higher consistency

## Areas of Application

- Shotcrete applied by dry- or wet-spraying
- Stabilization in tunnel construction and mining
- Temporary rockface-stabilizations
- Hillside stabilizations

## Application Notes

Centrament Rapid 640 is a liquid, alkali-free setting accelerator for shotcrete applied by dry- or wet-spraying.

The dosage depends on the concrete- and ambient temperatures, as well as on the desired curing-behaviour and the reactivity of the used cement. Overdosing can lead to delayed curing and to reduced early and final strengths.

To achieve an optimal result we recommend the use of fresh Portland-cement.

Other criteria for the effectiveness are the type and composition of the aggregates and additives, as well as the water/cement value.

Centrament Rapid 640 is added at the nozzle. Piston pumps are not suitable for dosing. No filter must be used for the suction tube, to avoid blockage. A constant and accurate dosing must be ensured.

To facilitate dosage it is recommended to agitate

Centrament Rapid 640 with pressurized air beforehand, as the material is self-thickening, or rather has a tendency to sedimentation after long-term storage.

Before Centrament Rapid 640 is used, the entire dosing equipment must be thoroughly cleaned with a lot of water. During concreting and work breaks the system must remain closed to avoid blockage.

Centrament Rapid 640 must not be stored in steelcontainers. The storage-containers must be closed tightly to avoid the evaporation of the water and resulting film-formation on the surface.

All necessary suitability tests must be performed before use.

Centrament Rapid 640 is subject to specific labelling: "Xi Irritant". Please observe the safety data sheet.

Please note the "General Information on the Use of Concrete-Admixtures".

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## Technical Data for Centrament Rapid 640

Characteristic	Unit	Value	Comments
Density	kg/dm <sup>3</sup>	approx. 1.42	-



Recommended Dosage	ml	40-60	per kg of cement
Allowed Dosage for Shotcrete DIN 18551	ml according to	70	per kg of cement
Viscosity	mPa-s	approx. 350	at +20 °C

### Product Characteristics for Centrament Rapid 640

Type of Admixture	shotcrete accelerator
Name of Admixture	Centrament Rapid 640
Colour	white
Consistency	liquid
Authorization	Z-3.25-1835
Notified Authority	MPA, Karlsruhe
Internal Production Supervision in accordance with DIN EN ISO 9001	
Colour Code	green
Storage	Can be stored for 6 months in tightly closed containers at temperatures between +5 °C to +30 °C.
Form of Delivery	230 kg barrels 1,000 kg containers

Property specifications are based on laboratory tests and may vary in practical application. To determine the individual technical suitability, preliminary suitability tests should be carried out under the application conditions.

**Note:** The information on this data sheet is based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendations of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

Edition 07/07. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.