

# Centrament Guniting

(Formerly known as MC-Torkrethilfe BE)

## Chloride free Guniting Aid



### Product Properties

- Chloride free
- Increases water impermeability
- Provides high early & final Strength
- Allows overhead guniting
- Improves bonding properties
- Allows spraying on moist surfaces
- Provides plasticizing properties
- Rapid setting

### Areas of Application

- Used in tunnels, galleries, drifts & shafts to quickly seal the water seepage
- Overhead Guniting
- Suitable as an admixture for all spread concrete and shotcrete operations

### Application Notes

#### General

**Centrament Guniting** is a chloride free guniting aid in a powder/liquid form specifically developed and designed to meet the demand for efficient and multifold properties desired at guniting job sites. **Centrament Guniting** is suitable as an admixture for all sprayed concrete and shotcreting operations. **Centrament Guniting** accelerates the rate of hardening and development of strength. By virtue of its formulation, it waterproofs the mix and renders the sprayed mortars substantially impermeable in addition to plasticizing the mix.

**Centrament Guniting** is formulated with carefully selected raw materials in view of making it suitable for use in most of mortar and concrete mixes, in which the use of calcium chloride or similar substances is undesirable. The reactive components rapidly combine with cement particles to accelerate the setting and hardening process thereby making the mortar or concrete rock hard minutes after spraying. **Centrament Guniting** lowers the material losses caused by rebound, thus reducing the cost of guniting.

#### Advantages

- Accelerates the hardening process – the concrete is rock hard minutes after jetting.
- Contains no chlorides
- Provides plasticizing properties thereby jetting is made easier
- Increases water impermeability
- Quickly seals water seepage like ground-water in tunnels, galleries, drifts and shafts providing high early and final strengths
- Allows overhead guniting
- Provides improved bonding properties
- Can be used even at lower temperatures
- Allows spraying on moist surfaces
- Allows thicker layers in single operation (cost saving)
- Speeds up placing/jetting of gunite and sprayed concrete (costs saving)
- Reduces material losses caused by rebound (cost saving)

#### Instructions for Use

**Centrament Guniting** may be used with most standard types of cements like OPC, rapid hardening portland cement, portland blast furnace cement etc. **Centrament Guniting** powder should be added to properly graded and proportioned concrete/mortar dry mix at a rate ranging from 1 to 5% by cement weight depending upon the acceleration of setting and hardening desired. It should be noted that the setting time varies depending upon the type and age of the cement, mix design, and ambient temperatures.

**Centrament Guniting** should be thoroughly mixed. Due to rapid setting, water should not be added to the mix until jetting begins. Placing or jetting should be carried out taking into consideration the acceleration induced by admixing **Centrament Guniting**

It is necessary to conduct preliminary job-site test incorporating **Centrament Guniting** to determine suitability, optimum dosage, setting time etc. To determine the optimum dosage in a particular mix, it is advisable to make a trial by adding 3 % of **Centrament Guniting** and observe the setting time. If the setting is quicker than required, the dosage of **Centrament Guniting** can be reduced and if the setting time is slower than the dosage can be increased gradually, if necessary up to 5%. While making such trials and adjustments it should be ensured that the type and quality of cement as well as dry aggregate/sand grading is maintained constant.

During cold weather due to lower temperatures the setting time is reduced. It may therefore be necessary to use warm gauging water or heated aggregates.

## Further Instructions / Precautions

Application Area – Overhead Guniting



Application Area – Wall Guniting



## Technical Data For Centrament Guniting

Characteristic	Unit	Value	Comments
Mixing ratio	% By weight of cement	1.0% to 5.0%	Approximate, dosage should be optimized by conducting preliminary site trials.

## Product Characteristics for Centrament Guniting

Type of Product	Chloride free guniting aid
Form	Powder or Liquid
Colour	Off White
Shelf Life	12 Months from date of Manufacture
Delivery	250 kg drums, 30kg pails, and 30kg sacks
Storage	In Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost
Disposal	Empty packs completely and dispose off carefully to protect our Environment

**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 may 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. E. & O.E.

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