

# TYTRO<sup>®</sup> MF 120

High-performance plasticizing and water-reducing admixture for mine backfill mixes

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TYTRO<sup>®</sup>MF 120 is an aqueous water-reducing admixture specifically formulated to enhance the properties of cementitious mine backfill. Manufactured under closely controlled conditions to provide uniform, predictable higher quality performance, GCP's TYTRO<sup>®</sup>MF 120 contains no added chlorides.

## Product Advantages

- Improved rheology – Enhanced flow with reduced water
- Better pumpability – Reduces pumping pressure and decreases shear viscosity
- Optimized backfill – Greater economy for a certain level of strength, slump and air
- Higher strength at all ages
- Reduces segregation while maintaining flowability
- Increased uniformity
- Less permeable/more dense

## Uses

TYTRO<sup>®</sup>MF 120 is used in all mine backfill applications where it is desired to minimize the binder content yet maintaining workability, and especially in the following applications:

- Paste fill
- High-density fill
- Cemented rock fill
- Hydraulic fill

## Addition Rates

The dosage of TYTRO<sup>®</sup>MF 120 can vary based on the mix design, binder content, and the particle size distribution of the backfill material. The normal dosage range of TYTRO<sup>®</sup>MF is 300 to 1,300 mL/ton of backfill. Should conditions require using more than the recommended addition rates, please consult your GCP representative.

GCP recommends that trials be performed under local conditions before use to assess and optimize dosage rates and performance.

## Mixing & Dispensing

TYTRO<sup>®</sup>MF 120 can be dispensed directly into the water or the entire wetted out mix. TYTRO<sup>®</sup>MF 120 should not be dispensed directly on to the dry binder or with other admixtures.

## Packaging

TYTRO<sup>®</sup>MF 120 is available in bulk, delivered by metered tank trucks, 1,040 liter totes, and 210 liter drums.

## Storage

### Temperature

TYTRO<sup>®</sup>MF 120 should be stored at a temperature range of 2 °C to 35 °C.

If TYTRO<sup>®</sup>MF 120 freezes, it will return to full effectiveness after thawing and thorough mechanical agitation. It is recommended that your local sales representative be consulted prior to the use of any products that may have been frozen. Performance tests should always be carried out prior to use.

### Conditions

TYTRO<sup>®</sup>MF 120 must be kept in closed plastic containers or closed tanks.

### Shelf Life

If stored in tightly closed original containers and under the above mentioned conditions, TYTRO<sup>®</sup>MF 120 has a shelf life of at least 12 months. Please contact your local GCP sales representative regarding the suitability for use if the shelf life of TYTRO<sup>®</sup>MF 120 has been exceeded.

## Health and Safety

Avoid eye and skin contact and wear rubber gloves and safety glasses when handling this product. If contact occurs, rinse with plenty of water and seek medical advice.

For further information, refer to the SDS (Safety Data Sheet) or contact your local GCP representative.

## Compatibility

TYTRO<sup>®</sup>MF 120 is compatible with all GCP TYTRO<sup>®</sup>MF mine backfill admixtures. For use with other admixtures systems, we recommend you to contact GCP for further advice.

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Last Updated: 2022-03-22

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