

Set Retarding, Plasticising Admixture for TBM Backfill Grout

## DESCRIPTION



TamCem R-TBM is a special retarder/plasticiser for TBM backfill grouts. It is a non-chloride liquid admixture formulated to give water reduction, greater workability and extended open time to concrete and cementitious grouts. It is compatible with all cements meeting recognised international standards. It complies with the requirements of EN 934-2 and ASTM C 494 for Type B retarding admixtures.

TamCem R-TBM extends the hydration process by retarding both initial and final set times and enhances strength through cement particle dispersion. In TBM backfill grouts the setting and hydration control can be regulated using silicate accelerators such as TamShot 10SS.

## KEY BENEFITS

- › Good cohesion, no segregation and minimal bleed water with extremely high levels of workability
- › Controllable, long open time, enhanced placement and delivery control
- › High elastic modulus, low shrinkage and creep are achievable with graded coarse and fine aggregates
- › Superior surface finishes

## TYPICAL APPLICATIONS

- › TBM backfill grout admixture
- › High performance concrete
- › Mixing logistics efficiency during large pour
- › Hot weather concrete and grouting
- › Peak temperature controlled concrete
- › Ideal for long distance transportation of ready mixed concrete

## APPLICATION GUIDELINES

The dosage can be adjusted to meet the mix design requirements or to specific job site conditions. Trial mixes must be carried out to determine the appropriate dosage. An independent dispenser and feed line must be used during the application. TamCem R-TBM can be added to the mixed concrete/grout, or into the mixing water, but addition to any dry concrete/grout mix is not recommended.

Typical dosage is 0.3 to 1.2% of the cementitious binder content. Should application conditions require a higher dosage rate, consult your local Normet representative.

TamCem R-TBM should not be used together with any other company's admixtures. Technical advice should be obtained from your local Normet representative regarding compatibility with other Normet Admixtures prior to use.

## TECHNICAL DATA

TamCem R-TBM	
Appearance	Red clear liquid
Density (kg/dm <sup>3</sup> )	1.11 ± 0.03
Solids content (wt-%)	19.0 ± 1.0
pH	6.5 ± 1.0
Chloride content (wt-%)	< 0.1
All at 20°C	

All technical data stated herein is based on tests carried out under laboratory conditions.

## PACKAGING

TamCem R-TBM is supplied in IBCs, drums and bulk. Packaging size may vary subject to local regulations and requirements, please contact your local Normet representative for more details.

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## STORAGE

TamCem R should be stored at room temperature (min 5°C and max 38°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of six months can be expected. However it is recommended that the suspension shall be mechanically agitated after long storage and before use.

## HEALTH & SAFETY

TamCem R-TBM should only be used as directed. We always recommend that the Safety data sheet is carefully read prior to application of the material. Our recommendations for protective equipment should be strictly adhered to for your personal protection. The Safety data sheet is available upon request from your local Normet representative.