

DESCRIPTION



TamShot 80 AF is commonly used for wet mix shotcrete

processes in the tunnelling and mining industry. The product is applied where initial rock support is needed or where a permanent lining has been designed (single shell tunnel lining).

TamShot 80 AF is a high performance quick setting liquid additive for sprayed concrete applications.

By adjusting the dosage, setting times and rebound can be positively influenced without risking a caustic work environment due to its low alkali content (< 1%).

KEY BENEFITS

- Fast setting times and high early strength.
- High final compressive strength development after 28 days and excellent long-term durability.
- High early strength allows for spraying in thicker layers.
- Factory controlled quality formula, tailor made for high temperature and high humidity application environments.
- Very low dust production during application ensures safer working environment.

TYPICAL APPLICATIONS

TamShot 80 AF reacts with all commonly used Portland cement types and therefore can be used to accelerate all cement based grouts or concrete types where fast setting of the substrate is required.

Typically, TamShot 80 AF is used in the civil and underground construction industry for applications such as:

- Rock support in tunnels and mines.
- Slope stabilization.
- TBM tunnel linings / backfilling.
- Soil stabilizations in poor ground conditions.

TECHNICAL DATA

TamCem 80AF	
Form	Suspension
Colour	Clear White to Light Yellow
Density	1.44 ± 0.02
Alkali content	<1%
Initial Set	>2min
Final Set	>6min
All at 25°C	

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

APPLICATION GUIDELINES

Refer to our technical department for detailed information on the application of TamShot 80AF.

Note: TamShot 80AF should be added directly at the nozzle of the spraying equipment at a suggested dosage of 3 % to 10% of the cement weight in the concrete mix

For optimum performance, the w/c ratio should be designed below 0.45. This ensures rapid setting and lower dosages. In most cases, a 6% bwc dosage is suitable for spraying layers of 10cm in a single pass.

In all cases, it is recommended to carry out prior testing involving all components such as cement, flyash, micro silica, sand, aggregates, etc together with optimizing the workability with TamCem Hyper Plasticizing Admixtures.

The use of TamCem HCA (Hydration Control Additive) is recommended to ensure the highest possible reaction with the cement lime for high early strength. TamCem HCA also extends the workability time of concrete.

All testing should be aligned to ASTM be aligned to ASTM, DIN or EFNARC standards to evaluate the best performing mix-design against economical considerations. Please always involve your local TAM T&M team for support

► PACKAGING

TamShot 80AF is supplied in 20 litre pails, 207 litre drums and 950 litre IBC tanks. Packaging size may vary subject to local regulations and requirements. TamCem 23SSR will freeze at approximately -4°C but will return to full functionality after thawing and thorough mild mechanical agitation.

► STORAGE

TamShot 80 AF should be stored at room temperature (min 10°C and max 38°C), kept dry and out of direct sun light. If these conditions are maintained and the product packaging is unopened, then a shelf life of up to 12 months can be expected.

► HEALTH & SAFETY

TamShot 80AF should only be used as directed. We always recommend that the Health & 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 Health & Safety datasheet is available upon request from your Normet representative.