

Internal Curing and Bond Improving Admixture

DESCRIPTION



TamCem iBond is an aqueous, solvent-free, chloride-free internal curing agent designed for wet-mix sprayed concrete to improve the bond between the sprayed concrete layers and/or to the substrate, and to reduce rapid evaporation of water from the sprayed concrete, typically in permanent sprayed concrete tunnel linings exposed to high levels of ventilation draught, or low relative humidity.

TamCem iBond meets the EN 934-5 compliance requirements for bond improving admixtures.

KEY BENEFITS

- > Improved bond between sprayed concrete and substrate and between subsequent concrete layers
- > Reduced evaporation of water the first hours after spraying
- > No external curing membrane necessary
- > Reduced water permeability for permanent sprayed concrete applications
- > Compatible with all types of cements

TYPICAL APPLICATIONS

TamCem iBond can be used for all types of wet-mix sprayed concrete applications, and is especially suitable for sprayed concrete applications in windy/draughty environments and in hot climates.

- > Tunnels
- > Caverns
- > Mining
- > Slope stabilisation

TECHNICAL DATA

TamCem iBond	
Form	Liquid wax emulsion
Colour	Milky white
Solubility in water	Fully miscible
Density	1.0 g/cm ³
pH value	9 ± 1
Chloride Content	< 0.1 %

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 TamCem iBond.

Dosing and pumping

Normet recommends that automated dosing of TamCem iBond is conducted using a peristaltic, rotary or gear pump. Mono type pumps should not be used.

Mixing

TamCem iBond should be stirred before use, and then added as with normal concrete admixtures during the concrete batching process after water and other admixtures have been added.

Consumption

The dosage of TamCem iBond generally varies between 0.8 - 1.5% by weight of cement. In special cases, other dosages may be recommended according to specific job conditions.

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PACKAGING

TamCem iBond is supplied in 200 litre drums and 1000 litre containers.

Other methods of packaging and supply should be discussed with your Normet representative.

STORAGE

TamCem iBond should be stored in tightly closed containers at temperatures between +4°C and +25°C. The product must not freeze. If these conditions are maintained and the product packaging is unopened, then a shelf life of at least six months can be expected.

HEALTH & SAFETY

TamCem iBond should only be used as directed. We always recommend that the Safety data sheet (SDS) 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.