NCC X-CALIBUR CONSTRUCTION CHEMISTRY

Technical Data Sheet

X-Tite Admix UW

Anti-washout additive for concrete and cementitious grouts

Product Description
X-Tite Admix UW is a powder additive that is used to add anti-washout characteristics to cementitious grouts to allow them to be placed underwater.

Advantages
- Reduces washout
- Reduces bleed and segregation
- Works with most pre-bagged grouts
- Chloride free

Uses
- Underwater grouting
- Underwater concrete repair
- Underwater concrete

Dosage
Between 0.5% and 1% by weight of cement.
Actual dosage will depend on the proportion of cement in the mix and the amount of anti-washout required.

Packaging
10kg bags, other pack sizes on request.

Shelf Life
24 months when stored at between 5 and 30°C under shade in a dry environment.

Installation Guidelines
Underwater grouting is a specialist operation and should be carried out by experienced personnel. It is essential that trial mixes and trial applications are carried out prior to commencing actual underwater grouting operations. The information given below is for guidance only.

Surface Preparation
The concrete surface should be free from all contaminants and should be prepared using a high pressure water jet to leave a clean exposed aggregate surface.

Formwork
Formwork should be watertight to prevent leakage of the grout. The formwork should have provision to be filled with grout from the bottom up via a non return valve and a sealable vent at the top extremity that can be closed off once grout has filled the void.

Mixing
Mix the grout as per the manufacturer's instructions. After adding the water, slowly add the measured dose of X-Tite Admix UW and mix until the grout has a homogeneous consistency and is fluid. The grout will appear to gel immediately upon addition of the admixture, but fluidity will increase with mixing.

Placing
Place immediately after mixing using a suitable pump or 50 to 100mm diameter pipe. Provide a continuous supply of grout to ensure sufficient pressure head and total water expulsion. Maximum thickness of the grout should be 150mm when placed underwater. For thicknesses up to 500mm, add 10mm aggregate to the mix at a maximum rate of 1 to 1 by weight. Trials will need to be carried out to determine the precise aggregate addition rate.

Limitations
Do not use without carrying out trial mixes first.
Do not use with mixes containing fly ash.
Setting time may be increased.
Avoid skin contact.
Do not discard into the water system.

Health and Safety
This product is for industrial use only by trained operatives. It is potentially hazardous if not used correctly. Please refer to the Material Safety Data Sheet (MSDS) prior to the purchase and use of this product. The MSDS can be obtained via our website www.ncc.com.eg

Authorized Technical Specialist
Please note that only NCC X-Calibur Authorized Technical Specialists ('ATSs') are permitted to change any of the information in this data sheet or to provide written recommendations concerning the use of this product. Visit www.ncc.com.eg for a full list of NCC X-Calibur ATSs.

Datasheet Validity
NCC X-Calibur makes modifications to its product datasheets on a continuous basis. Please check the datasheet update section on www.ncc.com.eg to ensure you have the latest version.

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