

ADCOCHEM 748

Powdered admixture for shrinkage compensation in cementitious systems such as grout and concrete

ADCO
Construction-
and Mining
Chemicals

www.adcon-namibia.com

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established 1994

Head Office : Nr 7 Eider Street, Lafrenz, PO Box 80490, Windhoek, Namibia Tel : +(264)61-215340 Fax : +(264)61-238429 E-mail : adcon@iafrica.com.na
Walvis Bay Branch: Unit 14, 10th Street, Factory Park, PO Box 4587, Walvis Bay, Namibia Tel : +(264)64-221343 Fax : +(264)64-221344 E-mail : wvb1@adcon.com.na

technical data sheet

DESCRIPTION

ADCOchem 748 is a non-metallic, chloride-free admixture supplied in powder form ready to use as constituent in cementitious systems such as grouts or concrete where shrinkage compensation is required. The chemistry of ADCOchem 748 has been developed to result in an expansion process (opposing plastic shrinkage and settlement) as well as a significant lowering of the water requirement of the mix. The rheology of the fresh mix is influenced to improve on cohesiveness, non-bleeding, workability, compactability and ease of placing into confined volumes.

USES, ADVANTAGES

ADCOchem 748 is specified for cementitious grout or concrete mixes that require non-shrink properties specifically for applications such as concrete repairs, bed grouting, casting-in of pipe sections into concrete members, etc. The admixture is suitable for systems based on Portland Cement as well as blends with mineral extenders such as pozzolanic materials, slagment or silica fume - ADCOchem 748 should not be used in combination with high alumina type binders.

The introduction of ADCOchem 748 into mixes generally results in increased compressive strength results stemming from the improved fresh mix properties and lowered water / binder ratio. The improved rheology of fresh mixes with the admixture as constituent allows the production of mixes with excellent flow characteristics often required in these product-specific applications. In order to effect the benefits of using the product, we suggest carrying out trial mixes that will allow adjustments / lowering of mixing water content for the required workability / pumpability.

GUIDELINES TO APPLICATION

ADCOchem 748 is supplied as a ready-to-use dry powder component in bags of 600 g, packed to be added per 50 kg of binder. It is important to ensure thorough mixing to yield an even distribution of the admixture in the grout or concrete.

Important : When using ADCOchem 748, the time between addition and mixing and placing should not exceed 60 minutes at ambient conditions of 20°C – 25°C; best results are obtained where the fresh grout or concrete is placed within 45 minutes after mixing. When congested volumes need filling, rather mix smaller batches at a time.

A high standard of workmanship is required when producing and installing specialized mixes such as shrinkage compensated types, the existing substrate surfaces shall be prepared correctly to a sound, keyed and water-saturated condition. Please ensure an efficient curing regime.

SAFETY

ADCOchem 748 is not considered toxic or dangerous; however standard industrial precautions apply such as protective clothing, gloves and eye goggles. The product is alkaline and hence may cause irritation to the skin and eyes.

Remember : Keep away from children, handle responsibly and consider the environment.

UPDATE

May 2017.

This supercedes all previous documentation.