

TYTRO[®] HC 270

Hydration stabiliser for shotcrete

Product Description

TYTRO[®] HC 270 is a ready-to-use aqueous solution of chemical compounds specifically designed to stabilise the hydration of shotcrete. The ingredients are factory pre-mixed in exact proportions under strict quality control to provide uniform results. One litre weighs approximately 1.15kg ± 0.02kg.

TYTRO HC 270 satisfies the Japan admixture standard JIS A6240 and is approved by ASTM C 494 as a Type D retarder.

Applications

TYTRO HC 270 is used to stabilise cement hydration in shotcrete system. TYTRO HC 270 is used in situations where a controlled set time extension is required.

Benefits

The addition of TYTRO HC 270 provides considerable benefits in the batching and utilisation of the concrete.

- Flexible delivery options
- Avoid cleaning of pumps or pipes during work interruptions
- Complete use of wet and dry mixes – no waste disposal
- Time and cost savings

How TYTRO HC 270 Works

TYTRO HC 270 stabilises the hydration process of portland cement preventing it from reaching initial set. This stabilisation is not permanent and is controlled by dosage rate. This stabilised concrete then resumes normal hydration when it is activated by the addition of TYTRO SA alkali-free accelerator at the nozzle. The result is shotcrete with normal plastic and hardened properties.

Compatibility

TYTRO HC 270 is compatible in with all TYTRO shotcrete admixtures. It is necessary to make a preliminary evaluation of the desired properties and to make product adjustments accordingly.



Addition Rates

Addition rates of TYTRO HC 270 for shotcrete varies between 0.2% and 1% by weight of cement. The amount used will depend on the specific materials involved, concrete age, temperature conditions, and stabilisation period. Consult your local GCP representative.

Dispensing Equipment

Please contact your local GCP representative for further information regarding the dispensing equipment for this product.

Packaging

TYTRO HC 270 is available in bulk, and 205L drums. It contains no flammable ingredients. TYTRO HC 270 will freeze, but will return to full effectiveness after thawing and thorough mechanical agitation.

Health and Safety

See TYTRO HC 270 Material Safety Data Sheet or consult GCP Applied Technologies.

gcpat.com | For technical information: asia.enq@gcpat.com

Australia 1800 855 525 New Zealand +64 9 448 1146 China Mainland +86 21 3158 2888 Hong Kong +852 2675 7898
India: Chennai +91 44 6624 2308 Delhi +91 124 402 8923 Indonesia +62 21 893 4260 Japan +81 3 5226 0231 Korea +82 32 820 0800
Malaysia +60 3 9074 6133 Philippines +63 49 549 7373 Singapore +65 6265 3033 Thailand +66 2 709 4470 Vietnam +84 8 3710 6168

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GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140, USA

Printed in Singapore | 03/16 | 200-TYTRO-253



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