

R+D HyCon® S 7042 F

Strength development accelerator in powder form for dry mortar products based on Ordinary Portland Cement

Characteristics / Chemistry

R+D HyCon® S 7042 F is a hardening accelerator in powder form based on calcium silicate hydrate.

Fields of Application

R+D HyCon® S 7042 F is especially optimized for acceleration of high early strength development of flowable and non-sag dry mortar products based on Ordinary Portland Cement (OPC), e.g.

- repair mortars
- cementitious tile adhesives (CTA)
- self-levelling underlayments (SLUs)
- self-levelling decorative overlayments (SLOs)
- self-levelling industrial floors
- flowable floor screeds
- conventional cementitious floor screeds (non-flowable)
- non-shrink grouts (machinery grouts)
- injection mortars

Technical Data

Physical shape	powder
Appearance	white to off-white
Drying loss, [%]	max. 2.0
Bulk density, [kg/m³]	600 to 1.000
pH-value (20 °C), 20 % in water	11.5 to 13
Alkali content Na₂O+K₂O [%]	max. 0.5
Dosage recommendation, [%] in relation to weight of dry mortar	0.5 to 2.0

Further Technical Data

Packaging	15 kg paper bags
Storage	to be stored in its unopened original packaging, store dry below 40 °C and protect from excessive heat; protect from moisture (see annex)
Shelf life	1 year
Storage class	13 (non-combustible solids)
Transport regulation	not known as a dangerous good according to transport regulations

Safety notes:

Comprehensive instructions are given in the corresponding Material Safety Data Sheets which are available on request.

Annex Storage and Handling:

HyCon® S 7042 F is a hygroscopic product that absorbs water quickly if wrongly stored. Attention is required in order to avoid the exposed surface with air humidity.

HyCon® S 7042 F might contain lumps < 1 cm. The lumps do not have any effect on the performance of the product.

Absorption of humidity can be avoided:

1. By preserving the product in closed containers
2. By preparing the possible pre-mixture just when it is used
3. By avoiding high relative humidity in the working environment

HyCon® S 7042 F does not contain preservatives and it is stable if stored in its original packaging or in suitable sealed containers.

Especially when performing lab tests, it is important that the sample containers are closed immediately after sampling.

The product is a sales product at experimental stage ("R+D Test Product") for which development and testing have not been completed yet. Further information, including amended or supplementary data, may be compiled in the future. For this reason, no assurances are given as to type conformity, processability, long-term performance characteristics or other production or application parameters. *Inter alia*, chemistry (raw materials) and composition/recipe of the R+D Test Product may be changed, and its production may be discontinued even without giving reasons. To the extent legally permissible, the R+D Test Product is made available without (express and implied) guarantee, warranty or liability. No warranty is given for the performance of the product during usage and processing. The customer shall bear the risk of using the R+D Test Product.

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BASF Construction Solutions GmbH

Dr.-Albert-Frank-Straße 32, 83308 Trostberg / Germany

Tel.: +49 8621 86-16 * Fax: +49 8621 86-29 95

www.basf-construction-solutions.com * construction-solutions@basf.com