



Construction
Industry

Lohtragon®

Crystallizing Solutions

Info Sheet Lohtragon®

Construction Industry – Admixtures for Cement

Construction chemicals are used with building materials such as cement and gypsum in order to optimize these formulations. The Lohtragon® metal salt range focuses on the following applications for the construction industry:

- ◆ Admixtures for cement (accelerators and retarders)
- ◆ Chromate reducing agents
- ◆ Retarders and crystal morphology modifiers for gypsum

Lohtragon® Info Sheets are available for each of these topics. Please get in touch with us for further details or discussing your individual challenge.

Accelerators and Retarders for Cement

From the very broad-ranging field of construction chemical additives, Lohtragon® offers a group of metal salts that are used as hardening retarders and accelerators in cement and plaster-based systems. Typically, Portland cement containing binders, such as lime/cement plasters, require a hardening accelerator, to treat surfaces as quickly as possible after their application.

Process cement mixtures more efficiently by using our Lohtragon® metal salts and adjusting the period of plasticity for your cement mixtures, resulting in a perfectly timed window in which forming or detailing of the applied material is possible.



All Lohtragon® products for the construction industry (CI) have been tested in our laboratory for compatibility and comparability in relation to standard construction admixtures. Experimental results show the desired effectiveness in economic dosages for various cement mixtures e.g. lime cement plasters or complex, ternary binder systems with a high Portland cement content. All products are compatible with standardized CEM III, which has a high content of blast furnace slag and reduces the carbon footprint of the cement mixture by 40 %. The Lohtragon® CI range is a proven alternative to many standard technologies such as lithium carbonate.

Features & Benefits

The features and benefits of the Lohtragon® range of admixtures for cements are:

- ◆ Adjusting the period of plasticity to ensure flexible post-processing
- ◆ Economic dosage ranges of 0.01-0.6 %, starting dosage for retarder 0.1 %, accelerators at 0.4 %
- ◆ The products have been tested by our in-house laboratory
- ◆ Admixtures work in complex ternary binder systems containing high Portland cement contents
- ◆ Compatibility of the Lohtragon® additive range with CEM I as well as CEM III

Construction Industry – Admixtures for Cement

Lohtragon® Product Selector – Admixtures for Cement

Selected Lohtragon® products have been gathered in a toolbox of admixtures for construction industry with Lohtragon® retarder or accelerators allowing flexibility in the composition of the cement system within a wide range:

Product / Type	Used substance	Product description
Lohtragon® B09	Retarder for Construction Industry	powder chem. pure
Lohtragon® L90 CI/21	Accelerator for Construction Industry	powder chem. pure
Lohtragon® L90 CI/24	Accelerator for Construction Industry	crystals chem. pure

Slowing down setting reactions can be an important step to optimize time management while working on multiple construction sites or zones. The best choice to generate a desired time window with fast setting sprayable cements is by utilizing the Lohtragon® B09 retarder. Its universal applicable formulation will give you the freedom that is necessary to cope most of your products with one single retarder.

The economic Lohtragon® L90 CI/21 and CI/24 accelerators will elevate your cements complexation kinetics and drive a fast setting reaction for various compositions. Their lithium-free technology and economic dosage will save money and diminish carbon emissions compared to standard lithium based accelerating additives.

Start by ordering our samples to change your broad accelerator repertoire into the Lohtragon® slim 3-way solution.

Contact

Connect directly with our Lohtragon® experts in our German headquarter.



 +49 5155 63-5888
 contact@lohtragon.com
 www.lohtragon.com

Lohtragon® – A Brand of Dr. Paul Lohmann®

For over 135 years, the company Dr. Paul Lohmann has been able to establish and maintain its leading position as an international manufacturer of mineral and metal salts that meet the highest quality standards. The product range includes over 400 different salts, from Aluminum to Zinc, in a total of over 7,000 different specifications.

Dr. Paul Lohmann® supplies its specialty salts worldwide to customers in the pharmaceutical industry, food sector, food supplements, cosmetics and – under the Lohtragon® brand – to customers in industrial applications.

Lohtragon® stands for unique competences in manufacturing, optimizing and developing metal salts for a broad variety of industrial market segments. Established in diversity, tailor-made for you, your application and your process - our solution for your challenges!