

**INDUSTRY
SOLUTIONS.**

**Mineral
Building
Solutions.**

CHT

**SMART CHEMISTRY
WITH CHARACTER.**



**ADDITIVES FOR MODERN
DRY MIX FORMULATIONS**

CHT – THE RIGHT SUPPLIER FOR DRY MIX FORMULATIONS

The key ingredients of any dry mix mortar are based on cement or gypsum. In combination with special additives, valuable dry mortar mixtures are produced and spread in the construction industry.

Mineral building materials are recommended to be used in numerous application fields. Repair mortars for internal and external applications, hand and machine applied plasters for walls, mineral adhesives and grout fillers, or self-levelling compounds are only a few examples of the materials in which our performing additives can be used.

All applications require specific rheology, open time and workability.

CHT offers a variety of additives to achieve the best performance for innovative and sustainable dry mix mineral products. Sustainability is in fact the basis of our company strategy. Our mission is to improve people's quality of life offering sustainable and beneficial solutions.

We are always looking for new green technologies worldwide and we are committed to ensuring that our raw materials meet the requirements and demands of the most modern and cutting-edge mineral building solutions.

Our product range is the outcome of this philosophy and we encourage our customers to take part of this challenge to develop always more sustainable technologies in order to shape a better future.



CHT TECHNOLOGIES

GUAR ETHERS

In modern formulations, modified cellulose derivatives are replaced by renewable polysaccharides based on guar beans. While maintaining an optimal water retention in mortars, tile adhesives or putties, guar ethers improve the workability and reduce stickiness on the tools.

Our guar ether technology allows to formulate high efficient dry mixes in a sustainable way.

- ▶ AGOCEL SMART
- ▶ AGOCEL P 300
- ▶ AGOCEL T 3
- ▶ AGOCEL T 6

STARCH ETHERS

In order to balance the high inherent tackiness of the cellulose derivatives, it is necessary, among other things, to use starch ethers, which also improve the applicability of the dry mixes.

Anti-sag properties and smoothness of the final product are additionally improved by the use of our starch ether derivatives.

- ▶ AGOCEL A 6
- ▶ AGOCEL A 100
- ▶ AGOCEL A 11

POLYACRYLAMIDES

Once the optimal water retention is achieved, high molecular weight anionic polyacrylamides are used to establish the required consistency. These polymers are characterized by a very strong thickening performance and a positive effect in the anti-sag behavior of the fresh mortar.

In tile adhesives, thanks to the high yield point given by CHT polyacrylamides, it is possible to achieve superior slip resistance.

- ▶ AGOCEL S 10
- ▶ AGOCEL S 2000
- ▶ AGOCEL S 5000

LAYER SILICATES

Workability and smoothing properties can additionally be improved through the use of layer silicates.

With this mineral thickener it is possible to moreover control the viscosity and water demand of modern dry mixes, with a special focus in grout fillers.

- ▶ AGOCEL M 6
- ▶ AGOCEL M 610

XANTHAN GUMS

Xanthan derivatives can be added to dry mix formulations in order to significantly increase the viscosity and the anti-settling performance.

This pseudoplastic biopolymer allows to operate in a wide range of temperatures and chemicals.

- ▶ AGOCEL RH 800 D
- ▶ AGOCEL V 700

TAMARIND GUMS

Adhesion to difficult substrates is always an issue for dry mix formulators. CHT developed a sustainable solution, a tamarind based rheological modifier able to enhance the adhesion of the fresh mortar improving at the same time its consistency.

- ▶ AGOCEL P 900

AIR CONTROLLING AGENTS

Air content in dry mix formulations is an important parameter and its control is fundamental. Wherever it is necessary to introduce air or reduce its amount in the dry mix recipes, CHT offers respectively an air entraining agent or a powder form defoamer.

- ▶ AGOCHEM LP 10
- ▶ AGOCHEM AF 1040 P

The combination of these chemistries improves the performance and reduces the costs of dry mix compounds to meet the modern needs of the construction market. See the table on the following page for additional information about our products.



PRODUCT OVERVIEW

Product	Chemical Basis	Dosage [%]	Characteristics
AGOCEL SMART	Modified guar ether	0.15 – 0.50	<ul style="list-style-type: none"> ▶ Medium viscosity cellulose replacement ▶ High water retention
AGOCEL P 300	Guar ether	0.10 – 0.40	<ul style="list-style-type: none"> ▶ Reduces stickiness ▶ All-round cost-effective product
AGOCEL T 3	Guar ether	0.40 – 0.60	<ul style="list-style-type: none"> ▶ Improves workability ▶ Reduces stickiness
AGOCEL T 6	Guar ether	0.30 – 0.50	<ul style="list-style-type: none"> ▶ Strong thickening effect ▶ Improves slip resistance in tile adhesives
AGOCEL A 6	Starch ether	0.01 – 0.25	<ul style="list-style-type: none"> ▶ Improves workability ▶ Reduces stickiness
AGOCEL A 100	Starch ether	0.01 – 0.05	<ul style="list-style-type: none"> ▶ Excellent anti-sag properties ▶ Improves workability
AGOCEL A 11	Modified starch ether	0.01 – 0.25	<ul style="list-style-type: none"> ▶ Superior thickening effect ▶ Improves workability
AGOCEL S 10	Polyacrylamide	0.02 – 0.10	<ul style="list-style-type: none"> ▶ Easy to dose ▶ Good thickening effect
AGOCEL S 2000	Polyacrylamide	0.002 – 0.01	<ul style="list-style-type: none"> ▶ High thickening effect at low dosage ▶ Excellent slip resistance in tile adhesives
AGOCEL S 5000	Polyacrylamide	0.002 – 0.01	<ul style="list-style-type: none"> ▶ High thickening effect at low dosage ▶ Designed for gypsum systems
AGOCEL M 6	Layer silicate	0.01 – 0.25	<ul style="list-style-type: none"> ▶ Good workability ▶ Excellent stability
AGOCEL M 610	Modified layer silicate	0.01 – 0.25	<ul style="list-style-type: none"> ▶ High thickening effect ▶ Improves workability
AGOCEL RH 800 D	Xanthan gum	0.05 – 0.50	<ul style="list-style-type: none"> ▶ Strong anti-settling effect ▶ Improves application properties
AGOCEL V 700	Xanthan gum	0.001 – 0.20	<ul style="list-style-type: none"> ▶ Superior thickening effect ▶ Strong anti-settling behaviour
AGOCEL P 900	Tamarind gum	0.20 – 0.50	<ul style="list-style-type: none"> ▶ Excellent adhesion ▶ Good thickening effect
AGOCHEM LP 10	Anionic surfactant	0.01 – 0.04	<ul style="list-style-type: none"> ▶ Air entraining agent ▶ Forms stable micro air pores
AGOCHEM AF 1040 P	Organic compound	0.10 – 1.00	<ul style="list-style-type: none"> ▶ High efficient powder defoamer ▶ Reduces air void content

09/2018

CHT
 SMART CHEMISTRY
 WITH CHARACTER.

www.cht.com