

# PRODUCT list

### ADDITIVES FOR THE BUILDING AND CONSTRUCTION INDUSTRIES

YOUR ADVANCED SOLUTIONS PARTNER

### **SOME APPLICATIONS**



Liquid waterproofing systems



Tile adhesive







Insulation natural materials



Renders



Plasterboards



Plasters



Facade protection

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#### ADDITIVES TO MAKE A DIFFERENCE

### **QUICK SET ADDITIVE**

#### YOUR SOLUTION TO APPLY WATERBASED FORMULATIONS IN WINTER

**PROX® LTQS** Quick-set additive for renders and external synthetic formulations. Dries formulations in difficult conditions.

#### **FASTER DRYING TIMES**



#### FASTER MECHANICAL PERFORMANCES REACH



### ADDITIVES TO IMPROVE INDOOR AIR QUALITY

#### **ALDEHYDE SCAVENGERS FOR A BETTER LIVING**

SYNTHRO°-STAB TF 291 P	Powder based formaldehyde and acetaldehyde scavenger. Free flowing powder soluble in water. Suitable for gypsum based plasters.
SYNTHRO°-STAB TF 278	Liquid acetaldehyde and formaldehyde scavenger. Easy to incorporate in neutral to alkaline pH. Suitable for adhesives.
SYNTHRO°-STAB TF 501	Liquid formaldehyde scavenger to reduce VOC emissions from substrates or improve indoor air quality (IAQ). Suitable for plasters and plasterboards.

#### **HOW DOES IT WORK ?**

**Synthro®-Stab TF** reacts with formaldehyde and forms an innocuous non volatile molecule. The reaction starts immediately, when molecules are in contact at room temperature.

Synthro®-Stab TF

Aldehyde

Innocuous non volatile covalent molecule

#### > 70% REDUCTION OF FORMALDEHYDE

A **Synthro®-Stab TF 501** thin layer is applied on a glass panel and placed into an emission chamber. 80µg of Formaldehyde is introduced into this emission chamber. The depollution effect of **Synthro®-Stab TF 501** is then observed.





### WATER REPELLENTS

#### SILICONE-FREE WATER REPELLENTS FOR WATERBASED FORMULATIONS

SYNTHRO <sup>®</sup> -PEL WA 494	Modified acrylic polymer. Non-yellowing. Good intercoat adhesion. Water beading effect. Suitable for plasters and renders
SYNTHRO®-PEL WA 491	Modified acrylic polymer. Non-yellowing. Good intercoat adhesion.
SYNTHRO <sup>®</sup> -PEL B 67	Polymeric based technology. Non-yellowing. Good intercoat adhesion. High gloss and wet effect. Suitable for facade protection

#### **HOW DOES IT WORK ?**

**Synthro®-Pel** reduces the surface tension of the dry film to enhance the water repellency. Additionally it also provides a film forming effect.



SYNTHRO®-PEL WA 494 > SYNTHRO®-PEL B 67 > SYNTHRO®-PEL WA 491

	t <sub>o</sub>	t1	t <sub>2</sub>	t <sub>3</sub>	t <sub>4</sub>	t <sub>5</sub>
SYNTHRO <sup>®</sup> -PEL WA 494	0	0		0	0	C,
SYNTHRO®-PEL B 67	0	0	0	0	ex	C
SYNTHRO <sup>®</sup> -PEL WA 491	0		0	X	0	0
Competitor	0			C×	•	
A Substrate starting to wet	🗙 Absorbe	d water				

### FIRE RETARDANTS

#### YOUR SOLUTIONS FOR WATERBASED FORMULATIONS AND SUSTAINABLE INSULATION MATERIALS

SYNTHRO®-NYL SNP 1813 S	Halogen-free waterbased fire retardant. Cost competitive solution.
SYNTHRO®-NYL SN 2017 S	Halogen-free waterbased fire retardant. Good compatibility.
SYNTHRO <sup>®</sup> -NYL NP 2720 S	Halogen-free waterbased fire retardant. Highly efficient. Non corrosive and non yellowing.

#### WHICH PRODUCT IS THE RIGHT ONE ?

**Syntho®-Nyl** creates a char and delays the flame propagation.



The SYNTHO®-NYL additives can be divided into two main groups depending of the substrate type.



\* Ammonia free

#### WHY DO YOU NEED SYNTHRO®-NYL?

	Insulation material	Insulation property	Fire resistance	Environmental impact
Maatucad	Glass wool	+++	+++	+
Most used	Rock wool	+++	+++	+
	Polystyrene	+++	++	+
	Polyuretane	++++	+	+
	Cellulose wadding	++	+	++
Strongly growing	Hemp / wood / other plant based	+++	+	+++

+++ = best

Plant based insulation materials offer a very good alternative to usual ones in term of insulation property and consumers expectations. Fire resistance will be improved thanks to our additives.

### **ADHESION PROMOTERS**

#### **COVALENT BONDING ADDITIVES TO INCREASE BINDER-SUBSTRATE ADHESION**

CHARTWELL® B-515.71 W	VOC-free primary amino functional metal organic complex. Suitable for acrylic and styrene-acrylic dispersions, epoxies and PUDs.
CHARTWELL® B-515.71 WM	VOC-free stabilized pre-neutralized primary amino functional metal complex. Suitable for acrylic and styrene-acrylic emulsions, epoxies and PUDs.
CHARTWELL® C-515.71 HR	Primary amino functional metal organic complex in solution in propylene glycol. Suitable for Epoxies, PU 2K and most water-based binders.
CHARTWELL® C-515.72 HRX	Primary amino functional metal organic complex in solution in propylene glycol. Suitable for Epoxies, PU 2K and most water-based binders.
CHARTWELL® C-523.2 H	Hybrid carboxy/hydroxyl functional adhesion promoter.

#### **HOW DOES IT WORK ?**

**Chartwell**<sup>®</sup> **technology** is a special bi-functional molecule which is based on an organo-metallic complex. One part of the molecule reacts with the substrate and the other part with the binder, enhancing a covalent bond between the substrate and the formulation.

Reaction with inorganic substrate (glass, metal, mineral...)

← (OH)z - [M] - (CH<sub>2</sub>)<sub>v</sub>- X →

Reaction with organic material (polymer, coating, adhesive...)

#### THE BENEFITS OF THE CHARTWELL TECHNOLOGY





## **DEFOAMERS AND ANTIFOAMS**

VEGETABLE OIL	
MOUSSEX® 7141 HL-V	Non-ionic concentrated vegetable oil for waterbased systems. Good incorporation.
MOUSSEX <sup>®</sup> 7143 HE-V	Non-ionic vegetable oil emulsion for waterbased systems. Particularly suitable for styrene-butadiene, styrene-acrylic and acrylic based resins.

MINERAL OIL	
MOUSSEX <sup>®</sup> 3130 HL	Concentrated non-ionic mineral oil for waterbased systems. Good incorporation.
MOUSSEX <sup>®</sup> 7134 HE	Non-ionic mineral oil emulsion for waterbased formulation. Highly efficient and good incorporation.
SILICONE BASED	
MOUSSEX <sup>®</sup> 8044 SE	Self-emulsifying modified polysiloxane for waterbased systems. Easy to incorporate under high shear conditions.
MOUSSEX <sup>®</sup> 319 SP	Powder based. Strong air release agent.

MOST VERSATILE	
MOUSSEX <sup>®</sup> 3032 HPF	Powder air release additive. Suitable for mortar, concrete and plaster with good surface aspect.



## **RHEOLOGY MODIFIERS**

#### LIQUID RHEOLOGY MODIFIERS

SYNTHRO®-THIX 633	Hydrophobic Alkali Swelable Emulsion (HASE) polyacrylate. Very good anti-settling and anti-sagging properties. Excellent performance at a wide range of pH.
SYNTHRO®-THIX 618	Alkali Swelable Emulsion (ASE) polyacrylate. Very good anti-settling and anti-sagging properties.
SYNTHRO-THIX 928 S	Liquid rheology modifier for low to high polarity solvent-based systems, supplied in NBP (n-butyl pyrrolidone). Very good anti-settling and anti-sagging properties.



## **DISPERSING AGENTS**

#### **DISPERSING AGENTS**

PROX® A 11	Polyacrylate sodium salt. Excellent stability.
PROX <sup>®</sup> B 03	Polyacrylate ammonium salt. Strong deflocculating characteristics.
SYNTHRO®-PON W 578	High molecular weight polymeric dispersing and wetting agent. Strong wetting and stabilization properties.



#### **RESINS**

### RESINS

#### ACRYLIC Anionic binder for temporary alkali soluble films. **PROX® AM 152** Crosslinks with epoxy or melamine resins for permanent films. Acrylic resin emulsion for industrial coatings on metals. PROX® AM 185 RS Resistant to solvents. Cationic acrylic co-polymer emulsion PROX<sup>®</sup> AM 219 RG N PROX® AM 270 R Fast drying application on concrete. Cationic core-shell acrylic binder for stain blocking primers. PROX<sup>®</sup> SBP 604 Excellent blocking properties against stains such as graffiti, coffee, nicotine, oil and grease. Non-ionic acrylic copolymer binder. PROX® AM 355 G Good stability in alkaline media, compatible with gypsum and cements. Vinyl-acrylic copolymer aqueous emulsion. PROX<sup>®</sup> AMB 328 G Forms a flexible film. Good compatibility with cement and gypsum. Carboxylated non ionic copolymer binder. PROX® AMS 169 Crosslinks epoxy systems. Good abrasion and chemicals resistance. Excellent adhesion on concrete, metal, ceramics, tiles. POLYURETHANE Anionic VOC-free PU dispersion. **PROX® R 908** Excellent balance between hardness and flexibility.





#### **WORLDWIDE MAIN LOCATIONS**



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