



PRODUCT LIST

ADDITIVES FOR LIQUID COATINGS

AND PRINTING INKS

2016



SYNTHRON

YOUR ADVANCED SOLUTIONS PARTNER

ADDITIVES FOR LIQUID COATINGS

- Defoamers and antifoam
- Levelling and Flow agents
- Substrate wetting agents
- Wetting substrates agent
- Dispersing agents for water borne paints
- Wetting and dispersing agents for water and solvent borne
- Coupling agents, compatibilizers
- Anti Flash rust
- Rheology modifiers
- Conductivity agents
- Fire retardant
- Stabilizers, pH buffer, Scavengers
- Waxes and water repellent additives
- Catalysts, Cross-linkers
- Odour masking
- Adhesion Promoters

MOUSSEX[®]
MODAREZ[®]
MODAREZ[®] X
MODAREZ[®] SW
PROX[®]
SYNTHRO[®]-PON
SYNTHRO[®]-COMP
SYNTHRO[®]-COR
SYNTHRO[®]-THIX and PROX[®]
SYNTHRO[®]-STAT
SYNTHRO[®]-NYL
SYNTHRO[®]-STAB
SYNTHRO[®]-WAX, SYNTHRO[®]-PEL
ACTIRON[®], SYNTHRO[®]-CAT
MASQUODOR[®]
CHARTWELL[®]

RESINS FOR WATER BORNE COATINGS

- Acrylic copolymer emulsion (Anionic, Non ionic and Cationic)
- Acrylic / acrylonitrile copolymer
- Styrene Acrylic copolymer
- Epoxy resins in emulsion
- Polyurethane in emulsion

PROX[®] AM Serie

PROX[®] AMN Serie

PROX[®] AMS Serie

PROX[®] EB Serie

PROX[®] R Serie

S	Suitable for solvent based coatings
W	Suitable for water based coatings
S/W	Suitable for solvent and water based coatings





DEFOAMERS POLYSILOXANE BASED

W	MOUSSEX® S 9092	VOC-free polysiloxane based defoamer for water-based systems, easy to incorporate and recommended for high quality industrial coatings. FDA 175-300
W	MOUSSEX® S 8044 NEW	VOC-free modified polysiloxane based defoamer for water borne industrial, decorative coatings and printing inks, and also suitable for pigments concentrates. Good compatibility and excellent dispersibility
W	MOUSSEX® S 8147 NEW	VOC-free modified polysiloxane based defoamer for water borne industrial, decorative coatings and printing inks, high concentration, suitable for pigment concentrates
S	MOUSSEX® 388 SL	VOC-free polysiloxane based defoamer for solvent and solvent-free coatings, especially for flooring applications, combining strong defoaming properties with good levelling. FDA 175-300
S	MOUSSEX® S 667	Polysiloxane based defoamer for industrial coatings, as 2K epoxy, PU 2K, air drying and stoving enamels. Highly efficient in clear coat. FDA 175-300

SILICONE FREE DEFOAMERS and ANTI FOAM

W	MOUSSEX® 7134 HE	VOC-free mineral oil based defoamer for water-based coatings. Highly efficient and easy to incorporate
W	MOUSSEX® 3130 HL NEW	Concentrated mineral oil defoamer for water borne decorative coatings and printing inks, with very strong defoaming properties in acrylic, styrene-acrylic, vinyl acrylic acetate and versatate based emulsion paints.
W	MOUSSEX® 7141 HL-V NEW	VOC free 100% active vegetable oil based defoamer for water-borne coatings and printing inks. FDA 175-300
W	MOUSSEX® 7143 HE-V NEW	VOC free vegetable oil emulsion based defoamer for water-borne coatings and printing inks. FDA 175-300
S/W	MOUSSEX® SF 561	VOC-free defoamer, suitable for solvent and water-based coatings, such as 2K acrylic, epoxy, air drying and stoving enamels and UV acrylic systems
S	MOUSSEX® SF 254	Defoamer for solvent-based industrial coatings. Recommended for 2K acrylics, epoxy, air drying and stoving enamels. Highly efficient in highly pigmented and solvent-free systems





LEVELLING AND FLOW AGENTS, ACRYLIC BASED, SILICONE FREE

S	MODAREZ® MFP	For solvent and solvent-free systems, medium molecular weight, combining high gloss and degassing properties. FDA 175-300
S	MODAREZ® MFP B	For solvent and solvent-free systems, medium molecular weight providing good substrate wetting properties. FDA 175-300.
S	MODAREZ® MFP C	For solvent and solvent-free systems, low molecular weight, highly compatible for use in clear coatings. FDA 175-300
S	MODAREZ® MFP E	For solvent and solvent-free systems, High molecular weight, gives high levelling, degassing, substrate wetting, and surface hardness in pigmented systems. FDA 175-300
S	MODAREZ® MFP-G 52 S NEW	Levelling agent for solvent borne systems, low molecular weight, high compatibility and high gloss.
S	MODAREZ® MFP L	For solvent and solvent-free systems, low molecular weight with wide compatibility, for use in clear coats and pigmented systems. FDA 175-300
S	MODAREZ® MFP L 50 S	For solvent and solvent-free systems, low molecular weight with wide compatibility, for use in clear coats and pigmented systems. 50% solid version of MODAREZ® MFP L
S	MODAREZ MFP-FC NEW	For solvent borne systems, especially designed for fast curing stoving systems.. It accelerates defoaming effect and gives high levelling and DOI.
S	MODAREZ MFP-ST NEW	For solvent borne systems, especially designed for short time drying systems. It helps to accelerate the degassing properties

LEVELLING AGENTS ACRYLIC BASED – REACTIVE, SILICONE FREE

W	MODAREZ® PW 336	VOC free levelling and flow agent for water based systems, hydroxyl functional, excellent flow, levelling and de-gassing performance. FDA 175-300
S	MODAREZ® MF A OH	Flow and levelling agent, hydroxyl functional, excellent performance in clear coats, good substrate wetting and de-gassing properties. FDA 175-300
S	MODAREZ® MF A EX	Flow and levelling agent for industrial solvent based systems, epoxy functional, improves surface hardness. FDA 175-300

LEVELLING AGENT POLYESTER BASED

S	MODAREZ® PSL 2000	Low molecular weight levelling and flow agent, with wide compatibility in solvent-based systems. Reduces craters, orange peel and pinholes. Increases gloss. FDA 175-300
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SUBSTRATE WETTING AGENT BASED ON MODIFIED POLYSILOXANE

W	MODAREZ® SW 452	Organically modified polysiloxane based wetting substrate additive, with outstanding performance on surface tension reduction, without affecting intercoat adhesion. For water borne systems, especially wood coatings and printing inks.
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SUBSTRATE WETTING AGENTS SILICONE FREE

S/W	MODAREZ® X 043	Silicone free substrate wetting agent, with strong performance on difficult substrates, no tendency to stabilise foam
S/W	MODAREZ® X 073	Levelling agent with substrate wetting properties. Acts as an air release agent and plasticizer for binders. FDA 175-300
W	MODAREZ® X 074	Substrate wetting agent for water based systems, with high anti-crater properties, strong interfacial tension modifier reducing fish eyes and crawling. Suitable for curtain application. FDA 175-300

➤ PIGMENT DISPERSION

DISPERSING AGENTS FOR INORGANIC PIGMENTS AND EXTENDERS

W	PROX® B 03	Dispersing agent for pigments and fillers in water-based systems. Polyacrylate ammonium salt. Strong deflocculating characteristics. VOC-free. FDA 175-300.
W	PROX® A 11	Dispersing agent for pigments and fillers in water-based systems. Polyacrylate sodium salt. Excellent stability and no foam stabilisation. VOC-free. FDA 175-300
W	PROX® A 648 NEW	Dispersing agent for pigments and fillers in water-based systems. Polyacrylate sodium salt with hydrophobic behaviour and strong dispersing effect. Excellent stability and no foam stabilisation. VOC-free. FDA 175-300
W	PROX® A 987	Dispersing agent for pigments and fillers in water-based systems Polyacrylate organic salt. Low water sensitivity high hydrophobic behaviour. Good sag resistance properties

POLYMERIC WETTING AND DISPERSING AGENTS

W	SYNTHRO®-PON W 578	Polymeric wetting and dispersing agent for high quality water-based systems. Especially recommended for TiO ₂ and High Color Carbon blacks (HCC)
W	SYNTHRO®-PON W 597	Polymeric wetting and dispersing agent for high quality water-based systems with wide compatibility, for organic and inorganic pigments
W	SYNTHRO®-PON W 599 NEW	Polymeric wetting and dispersing agent for organic and colored inorganic pigments in high quality water borne coatings, printing inks, resin-free pigment concentrates and slurries. Very wide compatibility in usual resins
S	SYNTHRO®-PON S 596	Polymeric wetting and dispersing agent for inorganic and organic pigments in industrial solvent-based systems, and pigment concentrates
S	SYNTHRO®-PON S 602	Wetting and dispersing additive for solvent-borne, especially for dispersion and stabilization of titanium dioxide and inorganic pigments. Imparts strong viscosity reduction of the mill base
S	SYNTHRO®-PON S 624 NEW	Polymeric wetting and dispersing agent for high quality industrial solvent borne systems, especially suitable for acid catalyzed polyester / melamine systems, such as coil coating applications





CONVENTIONAL WETTING AND DISPERSING AGENTS

S	SYNTHRO®-PON S 628 NEW	Wetting and dispersing agent for inorganic pigments and extenders especially designed to prevent flooding and floating, and reduce pigment sedimentation in industrial coatings
W	SYNTHRO®-SPERSE B 058	Wetting and dispersing agent for water-based fast drying coatings. Recommended for road marking paints. VOC-free
S	SYNTHRO®-PON DB 50	Wetting and dispersing agent for solvent-based and solvent-free coating systems. Recommended for bentone gels
S	SYNTHRO®-PON DB 80	High solid version (80%) of SYNTHRO®-PON DB 50
S	SYNTHRO®-PON S 128	Wetting and dispersing agent for inorganic pigments in solvent borne coatings, especially designed for high pigments loading systems, and for preparation of organophilic bentone gels
S	SYNTHRO®-PON 9 TD	Wetting and dispersing agent for pigments in solvent-based systems, with wide compatibility
W	SYNTHRO®-PON 9 TDK	Anionic wetting and dispersing agent for pigments in all standard water-based systems
S	SYNTHRO®-PON 98 LSB	Wetting and dispersing agent for organic and inorganic pigments in conventional industrial coatings. Strong water repellency and corrosion inhibiting properties

COMPATIBILITY AGENTS

S/W	SYNTHRO®-COMP CA	Emulsifier for ecologic brush cleaners and screen cleaners
S/W	SYNTHRO®-COMP 60 B	Additive to promote water acceptance in solvent-based systems. Excellent performance for metallic effect pigments stabilisation and orientation. FDA 175-300
S/W	SYNTHRO®-COMP 74	Additive to improve colour acceptance of universal colorants in base paints. FDA 175-300

➤ CORROSION PROTECTION

ANTI FLASH RUST

W	SYNTHRO®-COR C E 660 B	Nitrite and borate free anti-flash rust additive. Very active in liquid phase. VOC-free
W	SYNTHRO®-COR V 609 B	Nitrite and borate free anti-flash rust additive. Good compromise between anti-flash rust and in-can protection. For liquid and vapour phase
W	SYNTHRO®-COR C 08 B	Nitrite and borate free anti-flash rust additive. Wide compatibility and good stability. VOC-free





➤ RHEOLOGY MODIFIERS - THICKENERS

RHEOLOGY MODIFIERS FOR WATER BORNE FORMULATIONS

W	PROX® A 300	Protective colloid thickener based on high molecular weight sodium polyacrylate for acrylic and PVAc copolymers. It improves brushing qualities and avoids pigment and fillers settling. FDA 175-300
W	PROX® AM 162 S	Acrylic copolymer based thixotropic agent (ASE) with strong anti-settling effect for water based decorative coatings. FDA 175-300 (ASE)
W	SYNTHRO®-THIX 608	Hydrophobic acrylic associative thickener for water based formulation (HASE), which develops high viscosity. The pseudo plastic rheological profile allows a very fast viscosity recovery after application, with outstanding anti-settling effect.
W	SYNTHRO®-THIX 618	Acrylic non-associative thickener for water based formulation (ASE). It helps to adjust the viscosity any water base preparations at low shear rate and prevent pigments and fillers settling down. FDA 175-300
W	SYNTHRO®-THIX 633	Hydrophobic acrylic associative thickener for water based formulation, which develops high viscosity (HASE type). It is specifically designed for salts/ electrolytes and surfactants high levels containing formulations.

RHEOLOGY MODIFIERS FOR SOLVENT BORNE FORMULATIONS

S	SYNTHRO®-THIX 625	Rheology modifier and dispersing agent for solvent borne systems, with enhanced anti-settling and anti-sagging properties. FDA 175-300
S	SYNTHRO®-THIX 905 S	Liquid rheological additive for solvent-based systems NMP-free, from medium polar to high polar systems. Strong anti-sagging properties and easy to incorporate.

➤ OTHERS ADDITIVES

CONDUCTIVITY AGENTS – ANTI-STATICS

S/W	SYNTHRO®-STAT NPB PM B	Conductivity agent compatible with anionic and cationic environments
S	SYNTHRO®-STAT E B	Conductivity and anti-static agent with high performance for industrial coatings. Halogen free
S/W	SYNTHRO®-STAT CC B	Conductivity and anti-static agent. Suitable for water and solvent-based systems





FIRE RETARDANTS

W	SYNTHRO®-NYL SN 2017 S NEW	Halogen, bromide and VOC-free liquid fire retardant. Used in coating applications and wide compatibility with acrylic resins, styrene-acrylic binders and styrene-butadiene binders. No negative influence in water resistance. Suitable to be incorporate in water borne coatings.
W	SYNTHRO®-NYL NP 2720 S	Halogen, bromide and VOC-free liquid fire retardant. Good compatibility in cationic and non ionic emulsions. Non yellowing and compatible with water repellent. Suitable for wood treatments. Not recommended for anionic systems.

STABILIZERS

W	SYNTHRO®-STAB 25 B	VOC-Free, pH buffer additive for water based paints. Odourless pH stabilizing agent. Dispersing properties and corrosion inhibition behavior.
W	SYNTHRO®-STAB UE B	Stabilizer and anti-freezing agent for emulsion paints

FORMALDEHYDE SCAVENGERS

W	SYNTHRO-STAB TF 275	VOC-Free Formaldehyde scavenger. Used in combination with formaldehyde containing resins, it reduces the residual formaldehyde. It acts as a catcher for the formaldehyde present or released in the atmosphere, improving Indoor Air Quality.
W	SYNTHRO-STAB TF 278 NEW	VOC-Free Formaldehyde and Acetaldehyde scavenger. It reduces the emission of formaldehyde release by water borne formulation. It helps to reach the low levels of aldehyde emission and contributes to improve Indoor Air Quality. High concentration.
W	SYNTHRO®-STAB TF 501	Formaldehyde scavenger. Used in conjunction with formaldehyde containing resins, it reduces the residual formaldehyde. It acts as a catcher for the formaldehyde present or released in the atmosphere, improving the Indoor Air Quality, high concentration

WAXES AND WATER REPELLENTS ADDITIVES

W	SYNTHRO®-WAX P 101 D	Paraffin modified wax dispersion. Release effect. VOC-Free
W	SYNTHRO®-WAX PE-L 304 D	Low density polyethylene wax dispersion, VOC-Free, improves slip effect of surface coatings
W	SYNTHRO®-WAX PE-L 305 D	Low melting point modified polyethylene wax dispersion. Increase abrasion resistance, mould release, anti-dust and lubricating effect. VOC-Free
W	SYNTHRO®-WAX PE-H 306 D	High melting point and density modified polyethylene wax dispersion. Strong abrasion resistance and lubricating effect. VOC-Free
W	SYNTHRO®-WAX N-C 402 D	Carnauba wax emulsion for water borne coatings
W	SYNTHRO®-PEL PA	Water repellent agent for coatings, inks and paints based on modified paraffin wax. It improves water resistance and wash ability. Wide compatibility with current binders. FDA 175-300
W	SYNTHRO®-PEL WA 491	Acrylic based water repellent agent for coatings and inks. Increase the barrier resistance to vapour. Good compatibility, low viscosity. No haze in clear coat. FDA 175-300





CATALYSTS FOR STOVING SYSTEMS

S/W	ACTIRON® NXJ 60	Catalyst for epoxy cured with dicyandiamide hardeners. 2-propyl imidazole
S/W	ACTIRON® NX 452	Non Labelled and non yellowing amine blocked pTSA catalyst for stoving applications. Recommended for polyester systems and epoxy, especially for coil coatings applications. High reactivity. Highly concentrated.
S/W	ACTIRON® NX 458	Non labelled amine blocked DDBSA catalyst for stoving systems, designed for OEM automotive, coil coatings and high solid systems in general industry.
S/W	ACTIRON® NX 460	Non labelled amine blocked strong pTSA catalyst for stoving applications, suitable for solvent and water borne systems. High reactivity.

CATALYSTS and CROSS LINKERS FOR AIR DRYING SYSTEMS

S	ACTIRON® NX3 LC	Catalyst for epoxy and PU at low temperature, and high humidity conditions. FDA 175-300
W	SYNTHRO®-CAT Z NEW	Formaldehyde-free cross-Linker and Hardener for water borne stoving and air drying systems based on polyester or acrylic resins. It improves the water resistance and hardness.
W	PROX® 29649 QS NEW	Quick drying additive for organic façade plaster used in ETICS (Exterior Thermal Insulation Composite system). It reduces the drying time of the coating during outdoor application in cold and humid weather conditions (temperature between 5 and 15 °C and relative humidity above 75%). This product accelerates the surface drying allowing a faster rain proofing of the façade plaster.

ODOR MASKINGS

S	MASQUODOR®	Range of specifically developed oil soluble odour masking agents to mask unwanted odours
W	MASQUODOR® H	Range of specifically developed water soluble odour masking agents to mask unwanted odours





➤ ADHESION PROMOTERS FOR COATING, PRINTING INKS AND ADHESIVES.

CHARTWELL® adhesion promoters are unique composition based upon proprietary organo functional metallic compounds as solutions compatible and stable in water-borne and solvent-borne systems

W	CHARTWELL B-515.71 W	VCO-free amino functional metal organic complex for water borne applications based on acrylic and styrene-acrylic emulsions, epoxy and PUD.
W	CHARTWELL B-515.71 WM	VOC-free stabilized pre-neutralized metal complex, for water borne applications based on acrylic and styrene-acrylic emulsions, epoxy and PUD. Low cost.
W	CHARTWELL B-516.71 HRW	VOC-free di-amino functional metal organic complex, for water borne applications based on acrylic and styrene-acrylic emulsions, epoxy and PUD.
W	CHARTWELL B-515.1 WH	VOC-free amino functional bi-metal organic complex, for water borne applications based on VAE emulsions, cathodic e-coat and cationic systems.
W / S	CHARTWELL B-515.1/2 H	Amino functional metal organic complex in solution in ethylene-glycol, for solvent borne applications based on epoxy, PU2K, alkyds, polyester, and cationic water borne systems and VAE emulsions, and water borne phenolic.
W / S	CHARTWELL C-515.71 HR	Amino functional metal organic complex in solution in propylene glycol, for water and solvent borne applications based on epoxy, PU2K, Urethane modified NC, TPA, acrylic and styrene-acrylic emulsions, PUD, phenolic emulsions.
W / S	CHARTWELL C-515.71/1.5 H	High reactive amino functional metal organic complex in solution in propylene glycol, for water and solvent borne applications based on PU2K, epoxy, urethane NC, alkyd hydro reducible and emulsion, acrylic and styrene-acrylic emulsions, epoxy emulsions, PUD
W / S	CHARTWELL C-515.72 HRX	High reactive amino functional metal organic complex in solution in propylene glycol, for water and solvent borne applications. Water borne based on acrylic, styrene-acrylic emulsion, PUD and alkyd hydro-reducible. Solvent borne based on PU 2K and Epoxy 2K.





➤ WATER BORNE RESIN EMULSIONS

ACRYLIC EMULSIONS		
W	PROX® AM 152	Anionic Acrylic functional binder for temporary protective coatings. Alkali soluble. FDA 175-300
W	PROX® AM 157	Anionic Acrylic resin in emulsion for fast drying films at low temperature. Provides hard but flexible films with good solvent resistance. Designed for floor and road marking coatings. FDA 175-300
W	PROX® AM 164 RS	Anionic Acrylic resin in emulsion for exterior architectural water borne coatings. Good hardness and resistance to water. Compatible with sodium silicate.
W	PROX® AM 185 RS	Anionic Acrylic resin in emulsion for industrial coatings on metals. Resistant to solvents. FDA 175-300
W	PROX® AM 219 RG N	Cationic acrylic co-polymer emulsion for coatings, inks and fibreglass. Provides soft effect.
W	PROX® AM 270 R	Cationic acrylic co-polymer emulsion for coatings, inks and fibreglass. Increases hardness
W	PROX® AMN 317 R	Non ionic acrylic / acrylonitrile copolymer emulsion. Soft binder. Resistant to solvents. FDA 175-300

STYRENE-ACRYLICS EMULSIONS		
W	PROX® AMS 169	Carboxylated non ionic styrene acrylic copolymer emulsion. Produces a hard and glossy film, with high brightness. Cross linker for epoxy

EPOXY EMULSION		
W	PROX® EB 9913 C	Aqueous emulsion of epoxy resin, with very high molecular weight. Grade 9. EEW > 3000. Self cross-linkable at 160° C. Low VOC.

POLYURETHANE DISPERSION		
W	PROX® R 908	PU emulsion which gives a colorless glossy film. Excellent balance between hardness/flexibility and abrasion resistance. Good adhesion on plastics, metals, fiber glass. VOC-Free. FDA 175-300



NOTES:

SYNTHRON

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