Pentachem

SINCE 1994

INNOVATIVE SUSTAINABLE SOLUTIONS

ADDITIVES FOR PAINTS AND COATINGS

PENTACHEM.IT

suggested recommended

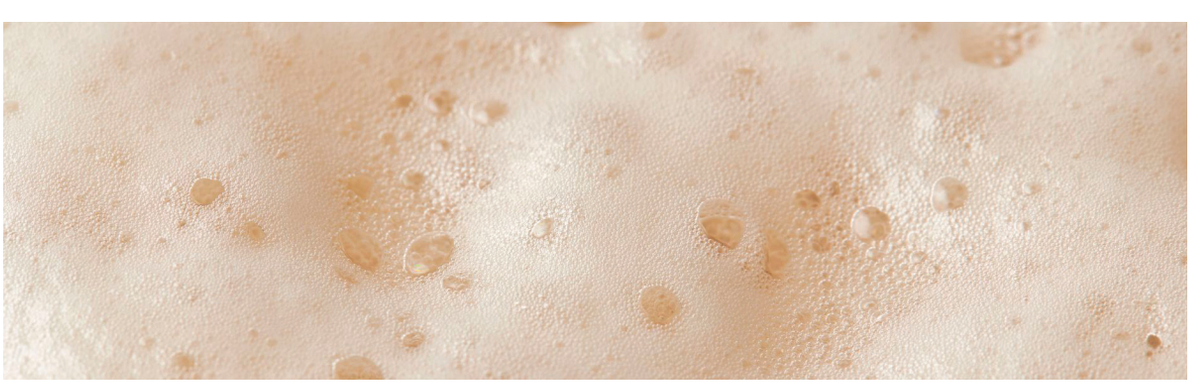
Defoamers

Defoamers are used to reduce and eliminate the formation of air bubbles within the product. This can cause defects during application and negatively affect the visual quality of the final product. It is therefore particularly important especially during mixing, and most notably in water-based paints where foam formation is more likely to prevent this phenomenon from occurring. These additives help prevent defects related to foam formation; a smooth, defect-free surface is less prone to wear and damage, which contributes to the overall performance and durability of the paint or coating.

	ANTIFOAM		
	MLW 300	MLW 305	SLW 24
Composition	Minerals olis		Silicones
State	Liquid		
Active content	93%	48%	87%

FEATURES (MIN=1 MAX=4)			
Suppression of entrained foam	4	3	4
Microfoam suppression	3	3	4
Versatility of use in the production process	4	4	4

APPLICATION FIELDS			
Water-based enamels	⬠	⬠	⬟
Siloxane coatings	⬠	⬟	⬠
Acrylic coatings	⬟	⬟	⬠
Water-based paints	⬟	⬠	⬠
Acrylic decorative paints	⬟	⬟	⬠
Lime-based decorative paints	⬟	⬟	
Vinyl decorative paints	⬟	⬟	
Primer	⬟	⬟	⬠



Dispersing and Wetting additives

Dispersing agents, in paints and coatings, help distribute the particles of the fillers evenly across the surface of the film. This prevents agglomeration and sedimentation, ensuring a smooth finish and accurate color performance.

Wetting agents, by reducing the surface tension of water, enhance the wettability of pigment particles and other solid fillers, facilitating their dispersion.

	DISPERPAINT AC 20	PENTAWET 11
Composition	PCE	Fatty acid esters
State	Liquid	
Active content	50%	98%

FEATURES (MIN=1 MAX=4)		
Stability	4	4
Versatility	4	4
Color development	4	4
Compatibility with fillers	4	4
Performance at high PVC or/in Slurry	3	4

APPLICATION FIELDS		
Water-based enamels	⬟	⬟
Coatings	⬟	⬟
Water-based paints	⬟	⬟
Decorative paints	⬟	⬟
Lime-based products	⬟	⬠

Plasticizers and waterproofing agents

Pentachem plasticizers enhance and improve the plasticity of the film over time, preventing the formation of cracks on the surface. They do not alter the characteristics of the film and are fully compatible with all emulsions and typical substances used in water-based dispersion products.

Water repellents are additives that make the final film hydrophobic to water. They are distinguished into additives to be used within the formulation and as a final product to be applied as a top-coat, capable of making the surface glossy and hydrophobic, or creating marble-like effects on the surface (classic decorative wax).

	PENTAPLAST A 30	PENTAWAX 55	PENTAWAX 65
Composition	Ethoxylated fatty alcohols	Marseille soap and waxes	Concentrated hydrophobic agent
State	Liquid	White liquid	
Active content	98%	10%	50%

FEATURES (MIN=1 MAX=4)			
Stability	4	4	4
Versatility	4	4	4
Compatibility with emulsions	4	4	4
Performance over time on applied film	4	4	4

APPLICATION FIELDS			
Coatings	⬟	⬠	⬟
Water-based paints	⬟	⬠	⬟
Decorative paints	⬟	⬟	⬟
Lime-based products	⬟	⬟	⬟

Thickeners

Thickeners in paints and coatings are used to increase the viscosity and the consistency of the material, thereby improving its application and final finish. They work by creating a denser, more spreadable structure, and blend perfectly with cellulose ethers.

	PENTAVISC A 10	PENTAVISC P 50
Composition	Acrylic copolymer	Polyurethane
State	Liquid	Viscous liquid
Active content	15%	50%

FEATURES (MIN=1 MAX=4)		
Performance even when diluted	4	4
Stability of the final product over time	4	4
Compatibility with dispersing systems and emulsions	4	4
Resistance to bacterial attacks	4	3
Anti-splattering	4	4
Compatibility with cellulose ethers	4	4

APPLICATION FIELDS		
Water-based enamels	⬠	⬟
Coatings	⬟	⬠
Water-based paints	⬟	⬟
Decorative paints	⬟	⬟
Lime-based products	⬟	

Cellulose ethers

Pentachem has developed a line of delayed HPMC (Hydroxypropyl Methylcellulose) in various grades, suitable for the formulation of water-based products. Their use helps the system to mantain the suspension of the fillers, preventing sedimentation.
Easy to disperse, they can be combined with synthetic modifiers to optimize and achieve the desired viscosity. They facilitate tool glide and prevent splattering effects during the application of the final product.

	PENTA ECP 5	PENTA ECP 15
Composition	HPMC	
State	Powder	
Viscosity	4.000 ÷ 6.000 mPa.s	13.000 ÷ 18.000 mPa.s

FEATURES (MIN=1 MAX=4)		
Water retention	4	4
Viscosity preservation	4	4
Shear stress stability	4	4
Resistance over time	4	4

APPLICATION FIELDS		
Water-based enamels	⬟	⬠
Siloxane coatings	⬠	⬟
Acrylic coatings	⬠	⬟
Water-based paints	⬟	⬠
Acrylic decorative paints	⬟	⬟
Lime-based decorative paints	⬠	⬠
Vinyl decorative paints	⬟	⬟

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