

Products of POLYGON CHEMICAL LTD.

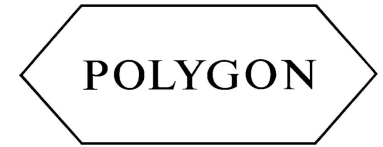


Additives for paints and coatings

The product list is not complete. The statements made do not dispense the reader from verifying them.

Product names	Application	Properties
Dispersing and wetting agents for inorganic pigments, especially for fillers		
POLYGONAL DW-110	3-in-1 additive, replace dispersing agent, wetting agent and polyphosphate in emulsion paints especially with a high percentage of fillers. Excellent for dispersing inorganic pigments like iron oxide and bismuth vanadate.	Very low starting viscosity. Stabilizes emulsions without increase in viscosity. Extreme low tendency of sedimentation. High colour strength and good hiding power. Can completely replace polyphosphates.
POLYGONAL DW-112	3-in-1 additive, replace dispersing agent, wetting agent and polyphosphate in emulsion paints. Excellent in dispersing fillers.	Very low starting viscosity and good stabilization of viscosity in storage. Reduces the tendency of sedimentation. Can completely replace polyphosphates.
Additives for corrosion protection in aqueous systems		
POLYGONAL K-210	Corrosion inhibitor protecting and stabilizing aluminium and other light metals in aqueous systems.	Particularly suitable for metallic paints: increases brilliance of the metallic effect. Promotes paint adhesion. Positive influence on the adhesion on metals. Free of nitrites. Effective also in high alkaline pH-range.
POLYGONAL K-211	Corrosion inhibitor and flash rust inhibitor for iron, steel, and non ferrous metals in water-based systems.	Prevents flash rust. Supports adhesion and corrosion protection in case of aqueous primers and one-coat coatings. Good compatibility to most of the current binders, also 2K-epoxy coatings. Free of nitrites.
POLYGONAL K-212	Corrosion inhibitor and flash rust inhibitor for aluminium, iron and steel in water-based systems.	Performs a monomolecular protection layer on metal surfaces with positive influence on adhesion. Good compatibility to most of the current binders, also 2K-epoxy coatings. Free of nitrites.
POLYGONAL K-213	Corrosion inhibitor and flash rust inhibitor for iron, steel, and non ferrous metals as well for tinned surfaces and tin in water-based systems.	Prevents flash rust and supports corrosion inhibition in case of aqueous primers and one-coat coatings. Particularly suitable for the protection of tin-plated containers. Good compatibility to most of the current binders. Free of nitrites.
POLYGONAL KA-214	Corrosion inhibitor for zinc as well as iron, steel, and non-ferrous metals in alkaline water-based paints. Improves paint adhesion on zinc.	No efflorescence on zinc plated surfaces as in case of an increase in pH. Temporary protection of zinc surfaces and zinc pigments in alkaline aqueous systems. Free of amines and nitrites.

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Product names	Application	Properties
POLYGONAL K-215	Highly innovative flash rust inhibitor and corrosion inhibitor for iron, steel and non-ferrous metals in water based systems	Excellent inhibition against flash rust in water based coatings. Good Compatibility with most systems like acrylic, alkyd, epoxy ester, styrol-acrylat dispersion and others. Mostly compatible with 2K-epoxy coatings if addition is done to the amine phase. Free of nitrites.

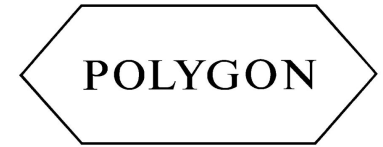


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Product names	Application	Properties
Additives for corrosion protection in solvent-based systems		
POLYGONAL K-230	Corrosion inhibitor protecting iron, steel and non-ferrous metals in solvent-based systems. Dewatering agent when substrate is still wet or in case of residual water in the system.	Improves wetting of metal surface and protects against corrosion. Applicable as corrosion inhibitor in salt water climate. Free of nitrites.
POLYGONAL K-231	Corrosion inhibitor for solvent-based systems protecting iron, steel, aluminium and non-ferrous metals. Dewatering agent when substrate is still wet or in case of residual water in the system.	Performs a monomolecular protection layer on metal surfaces and protects against corrosion. Applicable as corrosion inhibitor in salt water climate. Free of nitrites.
Adhesion promoters		
POLYGONAL A-250	Additive for adhesion promotion in aqueous systems on metal substrates such as iron, steel, and aluminium. Effective in a pH-range from acidic to alkaline.	Considerably improves corrosion protection. Product needs to be neutralized before use in water based coatings. Free of amines and nitrites.
POLYGONAL A-251	Additive for adhesion promotion in aqueous systems on metal substrates such as iron, steel, and aluminium. Effective in alkaline systems.	Considerably improves corrosion protection. Product needs to be neutralized before use in water based coatings. Free of amines and nitrites.
POLYGONAL A-260	Additive for adhesion promotion mainly in solvent-based, but also aqueous systems on metal substrates such as iron, steel and non-ferrous metals.	Free of amines and nitrites. Considerably improves corrosion protection of iron, steel, and non-ferrous metals.
Additives for substrate wetting in aqueous systems		
POLYGONAL W-310	Additive for substrate wetting with universal compatibility and defoaming effect, silicone-free	Improving the wetting on various non-polar substrates, even when contaminated with oil. Also improving the wetting of the pigments. VOC-free, silicone-free, high effective, working active against foam stabilization. Shows a good recoat ability and overprint ability. Often the levelling is well improved.

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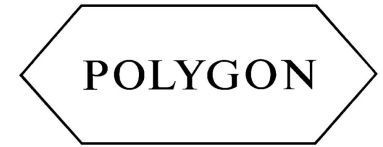


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Product names	Application	Properties
POLYGONAL W-311	Additive for substrate wetting of for very oily substrates and plastic substrates with defoaming effect, silicone-free	Improving the wetting on various non-polar substrates, even when contaminated with oil. Also improving the wetting of the pigments. VOC-free, silicone-free, high effective, working active against foam stabilization. Shows a good recoat ability and overprint ability. Often the levelling is well improved.

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for other products for paints and lacquers see under biocides, incrustations inhibitors + dispersing agents, solubilizers + emulsifiers