ROSSARI®

making you more competitive

We Help Your Business Win

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Painting and coating is the easiest way to transform our surroundings, and it is used to add colours to the surface of an object by covering it with a pigmented (coloured) coating.

Advantages of Paints and Coatings :

- Protection of all sorts of buildings and structures from the effects of water and sun.
- Painting of Wooden buildings, prevents from water seeping into the wood and making it rot.
- Objects are painted to make them look attractive.This includes furnitures, toys, tools, utensils, and street fittings.
- Paint is a very good way to give important informations to the people, using painted signs like road markings on the roads, street signs advertising signs and warning signs.
- As an art form,different types of paints are used for paintings.

These advantages are obtained by correct choice of additives being used during manufacture of paint. Hence the choice of paint becomes most important factor, as it has to contribute to a healthy indoor climate. The paint and coatings exert all the required attributes to provide healthy and happy surroundings.

Paint manufacturing and painting process may result in few unwanted defects in the paint or on the substrate which can appear during or immediately after application, or they become more apparent after the coating is cured.

To accomplish all the requirements and for smooth operations of paint and coating manufacturing or their applications ROSSARI BIOTECH has brought together all the performance Additives required to obtain an excellent Paint and Coating operations.

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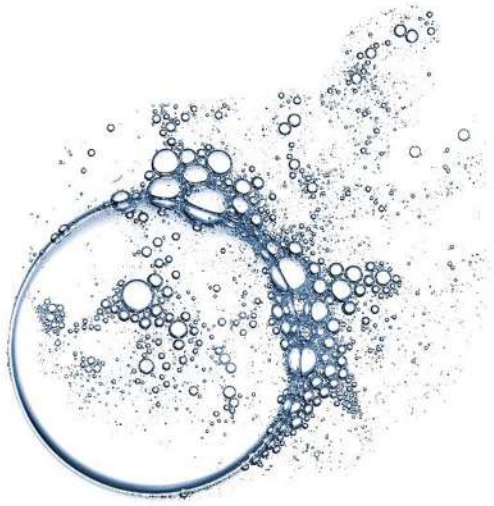

Silicone Based Defoamer For Water Based System

Silicone based defoamers are highly efficient foam eliminators offered for emulsion paints and coatings. These are also based on organically modified polydiemthylsiloxanes.

Polydimethylsiloxane works as a very efficient defoamer due to its structural properties and physical properties like:

- Low Surface Tension
- Spreading Capability
- Thermal Stability
- Chemical Inertness
- Water Insolubility

Organo-modified Polydimethylsiloxane (polyethers or other organic groups) exerts more compatibility and high performance. These organo-modified polydimethylsiloxanes are formulated into highly efficient defoamers with excellent compatibility.

Silicone based defoamer comes as 100 % liquid products or as aqueous emulsions.

Product Name	Paint & Coating Application	Adhesive	Colour & Pigment Paste/Dispersion	Metal Coating	Printing Ink	Construction Chemicals	Emulsion	Furniture Coatings
TRIOBAN PC 8030	●	●	●				●	
TRIOTBAN PC 30	●	●	●				●	
TRIOBAN IC 35					●			
TRIOBAN PC 8034	●						●	●
TRIOBAN PC 403		●						
TRIOBAN SD 100		●	●					
TRIOBAN PC 722	●					●		
TRIOBAN PC 044			●		●			
TRIOBAN 256 E	●			●		●	●	●
TRIOBAN PC 5800	●	●		●			●	
TRIOBAN PC 300				●			●	●
TRIOBAN PC 500				●			●	●

Oil Based Defoamers for water based system

Mineral oils (MO), Vegetable or Native oil (NO) are the most important carrier oils for defoamer formulation. These oils are mostly preferred & excellent base fluids to formulate effective defoamer and to achieve a quick and sustained defoaming effect. Various grades of waxes or silica is used in most oil based defoamer to enhance their performance. These products are mainly used for emulsion polymerization processes.
These defoamers are cost effective and have efficient performance.

Vegetable or native oils (NO) and white oils (WO) have additional advantages over conventional mineral oils.

For eg. Vegetable oils are renewable resources and have excellent sustainability characteristics. Ultra-pure (medical grade) white oils can also be used for food contact application as they will conform to comprehensive range of the food contact approvals.

Distinction Of Various Oil Based Defoamers:

Oil Based Defoamer	Advantage	Limitation
Mineral Oil (MO)	• Excellent result against macro foam • Universal • Cost effective	• Gloss reduction in high gloss systems • Typical odour
White Oil (WO)	• Similar efficiency to mineral oil defoamers • Odour improvement • Low fogging • Food contact compliance	• Gloss reduction in high gloss systems
Native oil (NO)	• High efficiency • Low S-VOC • Renewable raw material	• Gloss reduction in high gloss systems • Typical odour

Oil Based Defoamers For Water Based System

Product Name	Paint &Coating Application	Adhesive	Colour & Pigment Paste/Dispersion	Polymer Dispersion	Printing Ink	Construction Chemicals	Emulsion	Furniture Coatings
TRIOBAN PC NXZ	●	●				●	●	
TRIOBAN PC NIK			●		●			
TRIOBAN 2 SDXL	●							
TRIOBAN PC DKW	●	●				●	●	
TRIOBAN PC 1070	●							●
TRIOBAN PC NSDL	●	●		●		●		
TRIOBAN AW 246	●	●			●			
TRIOBAN PC LDW	●	●				●		
TRIOBAN PC 119	●	●	●		●		●	
TRIOBAN ADCO 55		●						

Silicone and oil based defoamers can also be used in the form of emulsions. An aqueous emulsion is a very convenient way of adding a defoamer in efficient way. Plain water acts as a carrier fluid.

Volatile organic compounds (VOC) and even semi-volatile organic compounds (S-VOC) are reduced to an absolute minimum, which makes them well suited for use in paints with eco-labels.

High shear mixing equipment is not required while using the emulsion defoamer as they already have correct droplet size for use. Low viscous emulsions are easy to handle, And also minimizes the improper dispersion in informulations.

Star-Polymer Based Defoamers For Water Based System

Star-polymer is a 3D structure, containing hydrophilic as well as hydrophobic elements. TRIOSTAR molecule defoams on molecular level. It acts as a unique surfactant interacting with the foam stabilizing surfactants and destabilizes the foam bubbles.

The core product of this line, has a unique chemical structure that provides multifunctional properties such as surface tension reduction and foam control. Also depending upon the formulation, it can offer a combination of benefits which includes wetting, dispersing and defoaming with negligible effect on water dispersibility.

STAR- POLYMER

Triostar Series

ADVANTAGES

- Multifunctional (Defoaming and Wetting)
- Improved bubble-break time compared to conventional defoamers
- Excellent defoaming persistence
- Effective against microfoam
- Easy to incorporate

Triostar Selecion Guide

	Inks			Coating Type								
Product Name	Flexographics Inks	Photogravure Inks	Inkjet Inks	Fountain Solution	Over Print Varnishes	Water Borne Coating	Industrial Coatings	Automotive Coatings	Wood Coatings	Powder Coatings	PTFE Coatings	Adhesive
TRIOSTAR 500B	●			●		●						
TRIOSTAR 5002												
TRIOSTAR 5003								●	●			
TRIOSTAR 5004							●	●	●		●	
TRIOSTAR 5001	●		●		●		●					
TRIOSTAR 5006	●	●			●							
TRIOSTAR 5007						●	●					
TRIOSTAR PS05										●		
TRIOSTAR 5802								●	●		●	
TRIOSTAR 560B			●	●								●

Powder Defoamer

ROSSARI BIOTECH offers silicone and non-silicone powder defoamer. The actives are formulated with inert carriers and are designed to be added to powder products like cement, Plaster and detergents. They prevent excessive shrinkage, minimizes porosity and speed up the wetting of dry mix products.

Application area of Trioban PWD Series of powder defoamer:

- Cement Based Self Levelling Compounds
- Cement Based Floor Screeds
- Repair Mortars
- Tiles Adhesive
- Tiles grouts

Product Name	Composition	Solid Content	Application
TRIOBAN PWD RD 2	Silicone powder defoamer	25%	Effective release of the active ingredient takes place even at low temperatures, and a good antifoam effect is also achieved at elevated temperatures most commonly used in Construction
TRIOBAN PWD STN	Silicone powder defoamer	15%	Effective release of the active ingredient takes place even at low temperatures, and a good antifoam effect is also achieved at elevated temperatures most commonly used in Construction
TRIOBAN PWD SD 15	Silicone powder defoamer	15%	Effective release of the active ingredient takes place even at low temperatures, and a good antifoam effect is also achieved at elevated temperatures most commonly used in Construction
TRIOBAN PWD 26	Silicone free powder defoamer	65%	Construction and oil gas exploration, agrochemicals powders, cement paints, powder paints, mortars, adhesives, gypsum etc.

Defoamers For Solvent Based Systems:

Two different classes are in used in solvent based systems - Silicone and Polymer Based Products.

In an aqueous systems air release is more important than the breakdown of the surface foam. Polyacrylate polymers are suitable actives for use as defoamer/deaerators in these systems. These defoamers/deaerators are often delivered in solvent carriers like petroleum distillates, but due to most recent regulations more and more VOCs Free carriers are used .

Pure PDMS type defoamer/deaerators show excellent performance but it may show certain incompatibility depending upon the system. Therefore organo-modified PDMS is used to give products improved compatibility.

DISPERSING AGENTS:

A dispersant or a dispersing agent is a substance, typically a surfactant, that is added to a suspension of solid or liquid particles in a liquid (such as a colloid or emulsion) to improve the separation of the particles and to prevent their settling or clumping.

TRIODISP PD 9500 **TRIODISP 5330** **TRIODISP 5333** **TRIODISP 5345** **TRIODISP 5350**

THICKENERS:

Thickeners - also commonly known as rheology modifiers or rheology control additives - control the rheological properties of the coating material to prevent sagging during paint application, adjust application thickness, facilitate painting, improve leveling, and prevent sedimentation of the filler, among all the other functions.

TRIOTHICK 60 **TRIOTHICK ASE 5328** **TRIOTHICK HASE 5330**

WETTING AGENTS:

A wetting agent is a surfactant, having both a hydrophilic and a hydrophobic part. This specific structure self-orientates the additive at the surface, reducing the surface tension of the liquid paint, the polar parts stay in the aqueous phase when the non-polar parts orientate at the interface.

TRIOWET 5X-7X **TRIOWET 25P** **TRIOWET 5331**

Biocides:

Biocides are employed to hinder the growth of micro-organisms. They provide protection against microbial activity caused by algae, fungi, bacteria and yeast which results in discoloration, breakdown of emulsions, gelling or thinning, shifts in pH, bad odor and even gassing. Biocides provide protection for health and protection of products and hence they play a significant role in the maintenance of health & hygiene standards.

In-can Preservatives

Composition of the product, pH value, compatibility, legal approvals and climatic conditions are to be considered while choosing a suitable biocide. Because of growth of various microorganisms,different packing-storing conditions & various raw materials, the preservation is not possible with only single biocide compound, with the comprehensive TRIOCIDE product line, ROSSARI BIOTECH has developed sophisticated multi-component preservative systems which will sufficiently protect your products.The optimum combination of selected active substances offer sustainable preservation for all kinds of water based formulations using coatings, building materials & other technical products.

Biocide Incan Preservatives							
Biocide	Paints & Coating Application	Adhesive & Selants	Colour & Pigment Paste/ Dispersion	Polymer Dispersion	Metal working & Oil field application	Printing Ink	Waste Water Treatment
TRIOCIDE IM 15	●	●	●	●		●	
TRIOCIDE IMF	●		●	●		●	
TRIOCIDE IBM	●	●	●	●		●	
TRIOCIDE IB20	●	●	●	●		●	
TRIOCIDE IB 20 P	●	●	●	●		●	
TRIOCIDE IBR	●	●	●	●		●	
TRIOCIDE ISOTHIO 14	●	●	●	●	●	●	●

Dry Film Preservatives:

The protection of surfaces against the growth of microorganisms is an important challenge.Temperature, humidity, sunlight accelerate the growth of fungi & algae leading to visible material destruction resulting in a loss of quality. The use of modern dry film preservatives under ecological & economic aspects support the sustained prevention of microbiological damage on coated surfaces.TRIOCIDE products are multi-component offers a wide range of reliable and highly efficient dry film preservation from algae & fungi to maintain surface quality & to achieve cost .

Benefits of TRIOCIDE Dry Film Preservatives :

- Suitable for long term protection
- Liquid, stabilised formulations
- Broad Spectrum

Biocide Incan Preservatives								
Biocide	Dispersion Exterior Paints	Textured Coatings / Plasters	Wood Primer	Exterior Paints	Interior Paints & Coatings	Adhesives & Sealants	Antibacterial Paints / Hygiene Coatings	Wood Preservation
TRIOCIDE DCT	●	●	●					
TRIOCIDE DCO		●		●				
TRIOCIDE DDZ		●		●	●			
TRIOCIDE DZB					●			●
TRIOCIDE DF 15					●	●	●	
TRIOCIDE DZ 40	●	●			●			

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