



We Love Chemistry



— Contact us

Hangzhou Mei Wang Chemical Co., Ltd.

Add: Room 1202, Block A2, Canal Vanke Center, PingShui
East Road No.888, 310015, Hangzhou, China

Tel: +86 571 8825 1736

Fax: +86 571 8825 1739

Email: info@mwchemical.com

Http: www.mwchemical.com



Intumescent Coating Flame Retardant

www.mwchemical.com

Certifications

- ISO 9001 Quality Management System
- ISO 14001 Environmental Management System
- ISO 45001 Occupational Health And Safety
- EU-REACH Registration
- RoHS Compliant
- SVHC Compliant



About Us

Mei Wang Chemical is an enterprise dedicated to R&D, production and sales, for environmentally friendly chemical additives, we mainly offer competitive price, high performance and excellent quality flame retardants for different application areas, such as polymers, intumescent coating, textiles, etc.

Our strong R & D and technical background contribute to our great technical service for global customers.

We have been providing our flame retardant for over 30 countries and regions overseas, our products are widely applied in construction and building, furniture, automotive parts, home appliance, cable & wire, electronics, etc.

Professionalism, Reliability, Concentration defines our business principles, meanwhile the constant innovation is guiding us to be leading flame retardant supplier and application technology service solutions provider in the world.

Mflam Flame Retardant for intumescent coating industry

Product	Equivalent to	CAS No.	Applications & Features
Mflam AP220	Exolit 422 or FR Cros 484	68333-79-9	Normal ammonium polyphosphate used in intumescent coatings.
Mflam AP220MF	Exolit 462, FR Cros 486	68333-79-9	Resin coated ammonium polyphosphate used in intumescent coatings, with perfect water resistance, especially for outdoors environment.
Mflam AP120		68333-79-9	Low polymerization degree (N<100) ammonium polyphosphate to be used in intumescent coatings.
Mflam AP660		68333-79-9	Special formulation of APP to produce transparent flame retardant coating.
Mflam MA	Melamine DSM	108-78-1	Melamine used in intumescent coatings as blowing source.
Mflam Penta M40	Charmor™ PM40	115-77-5	Mono-Pentaerythritol used in intumescent coatings as carbon source.
Mflam Penta D40	Charmor™ DP40	126-58-9	Di-Pentaerythritol used in intumescent coatings as carbon source.
Emulsion 8010	ACRILEM 33WA, ENCOR 2322, Synthomer 728 797		Emulsion 8010 is a binary copolymer emulsion specially developed for water-based fireproof coatings.
Emulsion 8019	VAE Emulsion from Wacker		Emulsion 8019 is an acrylic polymer emulsion specially developed for water-based fireproof coatings.



Intumescent Coating Formulation Guidance

Water-Based Coatings		
Material	%	Agent
Water	15.00	water
Calgon	0.10	dispersion agent
Triton x165	0.10	wetting agent
Bublex834	0.30	antifoam
Ammonium Polyphosphate	20.00	flame retardant
Mircide kw 600	0.15	fungicide
Tio2	11.00	titanium dioxide
Pentaerythritol	10.00	flame retardant
Melamine	10.00	flame retardant
Bermocoll431 fa	0.15	thickener
Glass fiber	3.00	filler
Amp 90	0.30	
Vinyl versatic resin	26.00	binder
Texanol	0.50	coalescent
Water	3.40	water
Total:	100.00	

Solvent Based Coatings		
Material	%	Agent
Xilol	10.0	solvent resin
Shelsola	10.0	solvent resin
Styrene-acrylic resin	10.6	neocryla b881or b 880
Chlorinated paraffin	4.5	flame retardant
Dispersant	0,2	soyalecitin
Thickener	0.5	thickener
Titanium dioxide	10.0	pigment
Milde glass fibers	3.0	vitrostrand 1304
Antimonium trioxide	3.0	flame retardant
Pentaerythritol	10.0	flame retardant
Melamine	10.0	flame retardant
Ammonium Polyphosphate	22.0	flame retardant
Snelsola	6.2	solvent
Total:	100.0	

How Fire retardant effect in coating?

Ammonium Polyphosphate	(Acid Source)
Penta	(Carbon Source)
Melamine	(Blowing Source)



Transparent Intumescent Coating Formulation Guidance (for wood)

Agent A:

1. E-606: water-based epoxy resin, 70/ first stir completely evenly;
2. Mflam AP660: water-based transparent flame retardant, 30 / add slowly, stir evenly at high speed;

Agent B:

1. WH-66: curing agent;
- (1) Use the ratio A:B=9:1/8:1, mix and stir evenly and apply directly without adding water;
 - (2) Finger dry within 4-5 hours, apply two coats after transparent, the total coating amount is 500 g/m², and each coat amount is 250 g/M²;
 - (3) If you want to spray, adjust the viscosity to about 500 cps, you can adjust it with cellulose acetate HEC;
 - (4) Carefully choose primer and finish paint, and pay attention to compatibility, the best choice of primer is oily based, and the best choice of the overcoat is oil polyurethane or fluorocarbon weathering-resistant paint, which can pass the weathering test for 250 hours

Raw material

1. E-606, WH-66
2. Mflam AP660



Advantages of Mei Wang Chemical

Strong R&D

Professional R & D team;
Various FRs for different fields;



Strong R&D

Government-stated factory;
Production compliance;
Complete equipments;
Quality assurance;

Competitive Price

Occupy biggest FR market in China;
Production cost is well controlled.

Technical Support

Fully experienced in application;
Provide free solution.

