

M J PIGMENT & ADDITIVES

• A SOLUTION OF PIGMENT & ADDITIVES



- Plastics
- Rubber, Leather
- PVC
- Paints
- Coatings
- Inks
- Textiles
- Construction Industries



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INTRODUCTION :

M J PIGMENT & ADDITIVES (MJPA) is established in 2017 as a toll-manufacturing and marketing company of Pigments, Dyes, Carbon Black, Titanium Dioxide, Fillers, Additives, Intermediate, Industrial Chemicals etc. As an experienced chemical producer, the group acquired skills in product development, understanding international customer needs and quality assurance practices.

This gave birth to international sourcing division with **Indian & Overseas associate producer**. It is based on the principle of responsible care and reliable distribution, playing a role of strategic partner between its customers and Manufacturers. We believe on brand prestige, values, honesty & quality.

Mostly our area of business is plastic, rubber, paints, ink, coating and chemical industries at local markets as well as in the world. MJPA efforts on overall quality management and maintains high quality standards. With an aim to beat the expectations of our customers, we are motivated to deliver essential services regularly.

We have an excellent team of sincere, young, enthusiastic and qualified professionals having an experience of 20 years with specialization in plastic, rubber, paint, ink, chemicals etc. Our teams have in-depth marketing & Manufacturing experience. We always look forward to offer best quality products to the clients based **not only in Asia but also everywhere in the world.** We have already customers in **Indonesia, Thailand, Turkey, Dubai, China and focus on Sri-Lanka, Nepal, Bangladesh & Pakistan.**

PIGMENTS AND DYES :

With such a wide variety of Plastics, Polymers and Resin systems available today, each with their unique physical requirements, a complete selection of plastics colorants is necessary. We offer Solvent Dyes, Disperse Dyes, Organic Pigments, Inorganic Pigments, White & Optical Brighteners which will meet the performance demands addressing color vibrancy, transparency & opaqueness, process stability, heat, UV resistance, FDA food-contact compliance all at an economical cost. A number of applications of our dyes and pigments are used in thin films, filaments, laminates, packaging, geo textiles, 3-D Printing, printing inks, coating, paints, extruded & molded products, and industrial & construction materials. Lets help you to select the right colorant for your plastic, polymer, resin system or in any other field.

ORGANIC PIGMENTS

PRODUCT NAME	C I NAME	PRODUCT NAME	C I NAME
Phthalocyanine Green	PG7	Mono Azo Yellow	PY 168
Phthalocyanine Green	PG 36	Dis Azo Yellow (Benzimidazolone)	PY 180
Naphthol Green B	PG 8	Mono Azo Yellow	PY 183
Dioxazine (Carbazole) Violet	PV 23	Mono Azo Ca-Lake Yellow	PY 191
Phthalocyanine (α) Alpha Blue	PB 15:0	Azo Lake (- Naphthoic acid) Red	PR 48:1
Phthalocyanine (α) Alpha Blue	PB 15:1	Azo Lake (- Naphthoic acid) Red	PR 48:2
Phthalocyanine (β) Beta Blue	PB 15:3	Azo Lake (- Naphthoic acid) Red	PR 48:3
Phthalocyanine (β) Beta Blue	PB 15:4	Azo Lake (- Naphthoic acid) Red	PR 48:4
Indanthrone Blue	PB 60	Azo Lake (- Naphthol) Red	PR 53:1
Dis Azo Yellow	PY 12	Azo Lake (- Naphthoic acid) Red	PR 57:1
Dis Azo Yellow	PY 13	Mono Azo Red	PR 112
Dis Azo Yellow	PY 14	Quinacridone Red	PR 122
Dis Azo Yellow	PY 17	Mono Azo Red	PR 170 (F3RK)
Mono Azo Yellow	PY 62	Mono Azo Red	PR 170 (F5RK)
Dis Azo Yellow	PY 83	Di- Kito Pyrrolo Pyrrole Red	PR 254
Isoindolinone Yellow	PY 110	Mono Azo Naphthol Red	PR 266
Quinophthalone Yellow	PY 138	Dis Azo Orange	PO 13
Isoindolinone Yellow	PY 139	Dis Azo Orange	PO 34
Azo Metal Yellow	PY 150	Mono Azo Orange	PO 36
Mono Azo Yellow	PY 151	Mono Azo Orange	PO 64

INORGANIC PIGMENT:

ULTRAMARINE PIGMENT

- Ultramarine Blue (Reddish) PB 29
- Ultramarine Blue (Bluish) PB 29
- Ultramarine Violet V3
- Ultramarine Violet V5

ANTI CORROSIVE PIGMENT

- Zinc Chromate Yellow PY 36
- Zinc Tetroxy Chromate Yellow PY 36:1
- Strontium Chrome Yellow PY 32
- Zinc Phosphate PW 32

CHROME PIGMENT

- Middle Chrome PY 34
- Lemon Chrome PY 34
- Scarlet Chrome PR 104

OXIDE PIGMENT (MICRONIZED & NON-MICRONIZED)

- Oxide Red PR 101
- Oxide Red PR 101 (110)
- Oxide Red PR 101 (120)
- Oxide Red PR 101 (130)
- Oxide Yellow PY 42

INORGANIC SPECIAL PIGMENTS FOR PLASTIC, COATING & CONSTRUCTION INDUSTRY

These pigments are called metal oxide pigments. They are wet or dry milled to a particles size lower than 1µm. The high temperature solid state reaction forms depending upon the used metal oxides rutile or spinel compound with excellent chemical resistance and color stability.

PROPERTIES: Heat stability >800°C, high opacity, excellent migration stability.

APPLICATION AREA :

- **PLASTICS:** For homo & co-polymer for long / short lasting plastic application.
- **PAINTS & COATING:** Automotive coating, coil-coating, powder coating & heat resistance coating.
- **CONSTRUCTION INDUSTRIES:** For coloring sandwich paving stones, concrete tiles or panels, swimming pool etc.

WE DEAL VARIOUS SPECIAL PIGMENTS LIKE :-

- Nickel Antimony Yellow PY 53, Zinc Ferrite Yellow PY 119, Zirconium Praseodymium Yellow PY 159, Chrome Niobium Yellow PY 162,
- Chrome Antimony Brown PBr 24
- Cobalt Chromite Blue PB 28, Cobalt Aluminate Blue PB 36
- Cobalt Chromite Green PG 26, Cobalt Titanate Green PG 50
- Copper Chromate Black PBK22, Copper Chromate Black PBK28, Chrome Iron Nickel Black PBK30

FLUORESCENT PIGMENTS:

Fluorescent Pigments are transparent organic resin particles containing dyes which are capable of fluorescing while in solid state solution. The characteristics of fluorescent pigments are decided by the surrounding resinous mixture.

Fluorescent Pigments are Thermoset type, applicable for system where high solvent resistance is required. These are insoluble in greater number of solvents and specially designed for use in formulations for coatings, paint & inks where strong solvents and temperature is used. These pigments have superior light fastness, Solvent resistance and Fine particle size with least migration in PVC than regular fluorescent thermoset type pigments. **We deal in a wide range of fluorescent pigment in Lemon Yellow, Green, Magenta, Brill Yellow, Violet, Blue, Golden Yellow, Red & Orange.**

- PL series: Thermoplastic polyester based, formaldehyde-free, high strength colors, with good heat resistance, which meltblend in plastics. These are Fluorescent Pigments specially made for plastics application (except P.V.C. Calendaring).
- HTR Series: Thermoplastic polyamide based, formaldehyde-free, premium high strength colors, with excellent heat resistance, brilliance and low mould plate out, which meltblend in plastics.
- Other series also available.

ALUMINIUM PASTE, PEARL PIGMENTS:

• Aluminium Paste / Granules	• Silver White Pearl	120
• Silver White Pearl 100	• Gold Pearl	303
• Silver White Pearl 111	• Gold Pearl	307

SOLVENT DYES:

Solvent dyestuff dissolves in most solvents and organic synthetic chemicals. The characters of the solvent dyestuff are with good transparency, high tinting strength, bright color and perfect performance of heat resistance and light fastness. When being applied to polyolefin, it may migrate.

- Solvent dyestuff can be used independently or can be mixed by different types with proper proportion to get different colors. They can selectively color most kind of resins (such as PS, HIPS, PC UPVC, PMMA, SAN, SB, AS, ABS, PE, PET, PA etc.) and find their application in the industry of decoration, painting, ink and wax etc.
- Solvent dyestuff and special auxiliary could be directly mixed with polymers to make the color up. Satisfied transparent effect could be achieved by pre-casting or moulding after evenly mixing, Titanium dioxide added can change the color depth and get the opaque or translucent effect. Solvent dyestuff with fluorescence can be used to achieve the fluorescent effect, while too much titanium dioxide will reduce or eliminate the fluorescent effect.
- The dosage of solvent dyestuff is dependent on the depth of color. When pursuing transparency, dosage could vary from 0.02% to 0.05%. Dosage as 0.1% to 0.2% could be applied when opaque color is chased.

WE DEAL VARIOUS SOLVENT DYES LIKE:

- Solvent Green 5
- Solvent Yellow 72, Solvent Yellow 93, Solvent Yellow 160:1, Disperse Yellow 241
- Solvent Red 23, Solvent Red 135
- Solvent Orange 60

CARBON BLACK:

Carbon black has been used as a reinforcing agent in tires and because of its unique properties; the uses of carbon black have expanded to include pigmentation, ultraviolet (UV) stabilization and conductive agents in a variety of day to day and specialty high performance products. Our main **Carbon Black** are **N330 (HAF), N660(GPF), N762/774(SRF), N220(ISAF), Fiber & special universal grade, P-Type, Conductive Black, Solvent Black 7** etc.

USES AREA

- In Tires and Industrial Rubber
- Plastics- used for conductive packaging, films, fibers, mouldings, pipes and semi-conductive cable compounds in products such as refuse sacks, industrial bags, photographic containers, agriculture mulch film, stretch wrap, and thermoplastic molding applications for automotive, electrical/electronics, household appliances and blow-moulded containers
- Electrostatic Discharge (ESD) Compounds
- High Performance Coatings
- Toners and Printing Inks.

TITANIUM DIOXIDE (TiO₂):

It is used as white pigment because of its high refractive index which gives brightness and opacity to the product in plastics, Ink, painting, coating, papers, food, medicine, textile and many other industries.

RUTILE

- It gives excellent light resistance, heat resistance, acid and alkali resistance, strong covering power, dispersion and also weather resistance to the product.

ANATASE

- It gives excellent light resistance, heat resistance, acid and alkali resistance, strong covering power, dispersion to the product.

FILLERS:

Fillers not only reduce the cost of product, but also frequently impact performance improvements that might not otherwise be achieved by the resin ingredients alone. Fillers are often referred to as extenders. In comparison to resins, fillers are the least expensive of the major ingredients. Through the proper use of fillers important properties like mechanical properties, water resistance, weathering, surface smoothness, stiffness, dimensional stability and temperature resistance can be improved.

CaCO₃: Calcium carbonate is the most widely used inorganic filler. It is available at low cost in a variety of particle sizes.

BARIUM SULPHATE: BaSO₄ are TRANSPARENT FILLERS designed for using in plastics, paints, coating, brake linings and other applications requiring acid resistant, high-density filler. In PP & PS used up to 70% with increasing opacity.

CALCIUM MAGNESIUM CARBONATE: Ca,Mg(CO₃)₂ is used as a filler for polymers and in many other industries like Glass, Stone Paste, Rubber, Floor covering, Ceramics, Painting, Silicone, Adhesives, Plastics, Decoration, Coatings etc.

TALC POWDER: Talc is used in rubber as a filler and whitener in paint, as filler and brightening agent in high-quality papers, and a primary ingredient in many types of cosmetics. With the plastic industry on a fast growth-track, the usage of talc is growing fast in PP, HDPE, LDPE, PVC, ABS & Thermosetting Compounds.

ADDITIVES:

There are a number of additives that are used to modify and enhance resin properties that become a part of polymer matrix. These additives are.....

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|-------------------------------|---|------------------------------|
| • OPTICAL BRIGHTENER | • FRAGRANCE ADDITIVE | • OXO-BIODEGRADABLE |
| • ANTI-BLOCKING AGENTS | • FOAMING AGENT | • INSECT REPELLENT |
| • ANTIOXIDANT | • CLARIFYING AGENT | • RODENT & TERMITE REPELLENT |
| • UV INHIBITORS & STABILIZERS | • VAPOUR CORROSIVE INHIBITOR (VCI) ADDITIVE | • STEARATE |
| | | • WAXES |

OPTICAL BRIGHTENERS

Optical brighteners or fluorescent whitening agent are used to make plastics, fibers, coatings, inks, and detergents appear whiter and brighter. These products function by absorbing invisible ultraviolet light and re-emitting it as visible light in the blue range of the spectrum. PRODUCT: OB, OB-1

ANTIBLOCKING AGENTS

Our anti-blocking agents are of the right particle size and pore volume to "micro roughness" to eliminate blocking and still deliver the optical and physical properties required for the product. We provide a non-toxic, non-crystalline (amorphous), high-purity process aid for resin producers, masterbatch and compounding companies.

ANTIOXIDANT :

Under the effects of shear stress and mechanical loading in an oxygen environment, plastics and elastomers are generally degraded and age rapidly. This is translated by a loss of mechanical properties like strength, stiffness or flexibility and a discoloration, yellowing or loss of gloss of the plastic. Antioxidants are used to fight this degradation and extend plastics' lifetime. Antioxidants protect the polymer from heat and oxygen ageing.

WE DEAL VARIOUS PRODUCT OF ANTIOXIDANTS LIKE

- ANTIOXIDANT 225 • ANTIOXIDANT 1076 • ANTIOXIDANT 168 • ANTIOXIDANT 1010 • ANTIOXIDANT 545

UV INHIBITORS & STABILIZERS

Both thermoset and thermoplastic may use special materials which are added to prevent loss of gloss, crazing, chalking, and discoloration, changes in electrical characteristics, embrittlement and disintegration due to ultraviolet (UV) radiation. Additives, which protect the product by absorbing the UV, are called ultraviolet absorbers. Materials, which protect the polymer in some other manner, are known as ultraviolet stabilizers. In the event that a non-gel coated resin will be exposed to sunlight, the addition of a UV stabilizer will slow the surface degradation.

WE DEAL VARIOUS PRODUCT OF UV INHIBITORS & STABILIZERS LIKE:

- UV 81 • UV 1084 • UV 944 • UV 622 • UV 783 • UV 770

FRAGRANCE ADDITIVE :

This is used to reflect the fragrance or aroma of the product in plastic packaging, Which indirectly create own identity of product. It can also be used to mask an unpleasant odor of some plastics. Fragrances are typically incorporated into masterbatches for later addition during extrusion or moulding or the plastic part.

WE DEAL VARIOUS FRAGRANCE PRODCUT LIKE

- Chocolate • Green Apple • Lavender • Lemon • Peach • Rose • Strawberry • Vanilla etc

FOAMING AGENT

Foaming agent is mixed with the melt polymer to obtain a plastic article with reduced density by displacing polymer with gas. However, the density or weight reduction is only one of several advantages that foamed plastics have to offer. Other common benefits include sink removal, reduced war page and increased production speed. Foaming Agents can provide plastic processors with many cost saving and processing benefits.

VAPOUR CORROSIVE INHIBITOR (VCI) ADDITIVE

Presence of oxygen & moisture in the atmosphere accelerates corrosion of ferrous & non-ferrous metals. It is an electrochemical phenomenon occurring on untreated metal surfaces expose in atmosphere. VCI use to break the reaction of surface to protect them from Surface Corrosion.

CLARIFYING AGENT

Clarifying agent improves mechanical properties such as flexural modulus and heat distortion temperature, and also increases transparency. It also improves the crystallization temperature, which leads to a shorter molding cycle, hence results in cost reduction.

OXOBIODEGRADABLE AGENT :

These are special Oxo-biodegradable additives for plastic. In this degradation process does not just cause fragmentation but changes the molecular structure of the material so that it stops to be a plastic and becomes biodegradable. It then disappears completely without leaving any fragments or toxic residues, instead changing into CO₂, water and biomass. The end result is no plastic, no harmful residues and no long-term damage at all.

We offer a unique, eco-friendly, non-hazardous, Oxo-biodegradable Coating Additive to enhance degradation of plastic in the presence of sunlight & oxygen. It is used in plastic processing during moulding, extrusion or blow-molded components & ideal for Shopping Bags, Grain Bags, Plastic Containers, Mulch Films, Packaging bags, Liners etc.

REPELLENT ADDITIVES :

INSECT REPELLENT:

We offer a unique, eco-friendly, non-hazardous Insect Repellent Coating Additive, to prevent insect/pest attack on fruits like pomegranate, grapes, bananas.

In Textile/Plastic Industry: It is used in manufacturing bags/films/liners/non-woven cloths, fabric for tents & outdoor use, for wrapping fruits in both pre-harvest & post-harvest conditions, skirting bags for bananas, pomegranates, grapes, fruit covers etc.

RODENT & TERMITE REPELLENT:

We offer a unique Additive, which can be widely used in Coatings to prevent the Coated Substrate from rodent & termite attacks.

Used in the paints & coatings which can be applied on soft wood furniture, coatings for drip irrigation pipes, automobile cables, diagnostic equipment cables, electrical cables, flexible pipes, wires, grain bags, mulch films, green house films, shade nets, pond liners etc.

CALCIUM STEARATE & ZINC STEARATE :

CALCIUM STEARATE:

Calcium Stearate is used by the rubber and plastic industries as an effective elastomer processing aid and release agent. Calcium Stearate allows for complete product dispersion in elastomers. Calcium Stearate reduces extruder pressure build-up of rigid PVC compounds when used as a processing aid during the manufacture of pipe, siding and injection molded fittings. It can also be used as a processing aid in wire drawing operations, and as an anti-caking additive in dry blending operations.

ZINC STEARATE :

Zinc Stearate is one of the most widely used additives in the plastics field. It serves primarily as a lubricant, but also as a densifying agent and a partitioning agent. It is used extensively in color concentrates as a dispersion aid. It is used to improve processing of the styren and polyesters, and to a lesser extent with the olefins. In rubber applications, it functions as an elastomer processing aid and release agent.

ZINC OXIDE :

Zinc oxide has high refractive index, high thermal conductivity, binding, antibacterial and UV-protection properties. Consequently, it is added into materials and products including plastics, ceramics, glass, cement, rubber, lubricants, paints, ointments, adhesive, sealants, concrete manufacturing, pigments, foods, batteries, ferrites, fire retardants, etc.

WAXES :

PP WAX (HOMO POLYMER & CO-POLYMER)

PP wax is a Dispersing agent for masterbatch of poly propylene plastics, Hot melt adhesive agent, Improve softening point of grease.

PE WAX

PE Wax is polyethylene homopolymer wax. It is an excellent and consistent ingredient for end formulations to improve product physical appearance and thermal properties for a broad range of industries, including hot melt adhesives, PVC, Masterbatches, rubber and thermoplastics road markings, etc.

EVA WAX

Produced using copolymerization of ethylene with the polar co-monomer vinyl acetate, EVA-copolymer waxes offer good compatibility, flexibility and surface adhesion.

DYESTUFF / PIGMENTS INTERMEDIATES :

We deal numbers of intermediates which are being used to manufacturing Solvent Dyes, Acid Dyes, Disperse Dyes etc.

We also deal pigment intermediates which are for Quinacridone, Azo, and more high performance pigments.

- ❖ CHLORANIL ❖ CARBZOLE ❖ BON ACID ❖ C - ACID ❖ NAPHTHOL AS, AS-E, AS-D, AS-BS

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