



Irish Specialty Chemicals India Limited

Additives for Paint **Coatings and Inks**



Introduction



IRRH Specialty Chemicals India Limited is producing paint additives with indigenous technology and has been leading the specialty chemical market with its state of the art technology.

Based on technical expertise and excellent research capability, IRRH produces novel products for 21st century. We at IRRH always strive to provide our customers complete satisfaction and try to satisfy their needs with our innovative products and services, at all times. We always strive to develop and provide right additives for any of your additive requirements.

With technical expertise from Irrh Specialty Chemicals Co. Ltd, S.Korea, Irrh Specialty Chemicals India Limited was founded in January 2010.

Irrh Specialty Chemicals India Limited established its new manufacturing facility for **Metallic Stearates, Anti- Settling and Anti -Sagging Agents** in Abu Road, Rajasthan, India and started commercial production in January 2012.



Irrh Specialty Chemicals India Limited



The Products

1. Anti- Settling and Anti- Sagging Agents (Paste Form)

A. Iscowax- HF (Paste)

Iscowax- HF Paste is Anti- Settling agent based on amide wax technology. It is easy to incorporate as it is already pre-activated.

Properties: White- Off White Paste.

Volatile: Xylene

Solids: 22%.

Recommended Dosage by Weight: 2-5% of total formulation.

B. Iscowax- HOF (Paste)

Iscowax-HoF is amide wax with special additives. It helps in preventing settling and sagging in solvent based Paints. It can be easily used in heavy duty primers, where pigment loading is high as it provides good anti-settling properties without affecting the viscosity of final product.

Properties: White- Off White Paste.

Volatile: Xylene.

Solids: 22%.

Recommended Dosage by Weight: 2-5% of total formulation.

2. Anti-Settling and Anti- Sagging Agents (Powder Form)

A. Iscowax- Hf

Micronized Anti-Settling agent based on Amide Wax technology for solvent based, high-solids and solvent free products. Due to its hydrogen bonding it lowers the activation temperature which upon heating, swells and disperses to provide efficient thickening.

Properties:

Appearance: White- Off White Powder.

Capillary Melting Point: 120-130°C.

Recommended Dosage by weight for Anti-Settling and Sag resistance: 0.5-1.5% of total formulation.

B. Iscowax- HOF (Powder)

Micronized amide wax with additives for all types of solvent based coatings. Iscowax Hof powder can be easily incorporated by activating in High Speed stirrer.

Properties

White- Off White Powder.

Capillary Melting Point: 115-125°C.

Recommended Dosage by weight for Anti-Settling and Sag resistance: 0.5-1.5% of total formulation.

3. Aluminium Stearate

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size Passing (200 Mesh)
IR-800	160	5.5	Max 8.0	Max 1.5	0.2-0.3	90%

Applications

Paint Industry	For improving pigment suspension, water resistance and gloss.
Ink Industry	Used for thickening & suspension improving
Construction Industry	Used for improving water resistance

Packing Size: 15Kgs/Bag



4. ISC- Castor Wax (Powder Form)

Grades	Melting Point °C	Acid Value	Iodine Value	Hydroxyl Value	Saponification Value	Color in Gardner Scale	Particle Size Passing (200 Mesh)
HCO (Powder Form)	85-87	Max 3	Max 2.5	Min 155	175-183	Max 2	99%

5. Waxes for Paint and Ink Industry

A. Iscowax-CF

Micronized Amide wax used in wood coatings to improve surface slip, sanding and matting properties. It is also used in powder coatings to improve surface slip and as degassing agent.

Applications: All types of Wood and furniture coatings.
Powder coatings.
Can Coatings.

Recommended Dosage: 0.2-1.8%, based by weight of total formulation.

Packing Size: 20Kgs/Bag

B. Iscowax-OL

Polyamide wax used in inks for adhesion and scratch resistance.

Appearance: White powder

Acid Value: Max 5.

Packing Size: 20Kgs/Bag

C. PE Waxes

Grades	Viscosity (cps/160°C)	Density (gm/cc)	Hardness, dmm	Melting Point	Acid Value
Iscowax-A	397	0.92	3.2	Max 110	Nil
Iscowax-ALH-1200	1200	0.92	2.5	107	Nil
Iscowax-AH 633	393	0.94	1.8	117	Nil
Iscowax-OP	200	0.93	Max 5	105	16

Packing Size: 25Kgs/Bag

6. Zinc Stearate

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size passing (Mesh)
ISC-500F	116-125	10.4-11.4	Max 0.5	Max 0.5	0.2-0.3	500 Mesh-99% Pass
ISC-500	116-125	10.4-11.4	Max 0.5	Max 0.5	0.2-0.3	325 Mesh-99% Pass
ISC-350	116-125	10.4-11.4	Max 1	Max 0.5	0.2-0.3	350 Mesh- 99% Pass

Environment: Biodegradable.

Toxicity: Zinc Stearate is non-toxic as per the following reference:

(U.S.A) FDA Title 21CFR 175.300-177.2600-182.8994

(EEC) Commission directive 90/128/EEC and further amendments.

Packing Size: 20Kgs/Bag (Standard Packing Size)

7. Calcium Stearate

Grades	Melting Point °C	Metal Content (%)	Free Fatty Acid Content (%)	Moisture Content (%)	Bulk Density (gr/ml)	Particle Size passing (325 Mesh)
ISC-100	150-160	6.5-7.3	Max 0.5	Max 3.0	0.28-0.38	90%

Environment: Biodegradable

Toxicity: Calcium Stearate is non-toxic as per the following reference:

(U.S.A) FDA Title 21CFR 172.863-177.2600-184.1229,

(EEC) Commission Directive 90/128/EEC and further amendments.

Applications

Construction Industry	As waterproofing and used for efflorescence control
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Packing Size: 20Kgs/Bag

8. Non-Ionic Surfactants.

PEG 200, 300, 400, 600, 1500, 4000, 6000, 8000 and Others.

9. PEG Esters

PEG Mono & Di-Stearates.

10. Polysorbates

Polysorbate 20.

Polysorbate 60.

Polysorbate 80.

We understand the need for quality and we therefore strive to offer you quality products with prompt and friendly services. We maintain quality throughout the process and also have adequate technical staff to assist our clients at various stages of their product development and requirements.

Quality Policy:



All products manufactured by us are of vegetable origin and certification such as Halal and Kosher is available.

NOTE

Recommended dosages for all products given here are as per our lab trials, however customers are requested to take trials and ascertain the exact dosage by trial and error method at their end before actually incorporating in their products.



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