

Chemistry That Colours Your World



We are India's largest commercial scale manufacturer of Synthetic Iron Oxide with an annual production volume exceeding 27,000 MT and clients across 3 continents.

First incorporated in 1939 with India's first Soda Ash factory in Dhrangadhra, Gujarat, DCW has steadily evolved over 8 decades to become one of the country's fastest growing chemical companies.

Over time, we have diversified our product portfolio from commodity to intermediate and specialty chemicals, focusing heavily on capital expansion and on innovating new products and processes.





Our sophisticated in-house testing facility closely monitors our SIOp pigments for each specific application to ensure we deliver consistent quality with every batch we ship to our customers.



DCW Ltd. is India's largest commercial scale manufacturer of Synthetic Iron Oxide Pigments (SIOp), marketed under the brand - **Dirox®**

The pigments are produced at the Company's Sahupuram facility using the unique zero discharge precipitation process which helps significantly lower energy consumption as well as, minimise DCW's environmental impact.

Our Iron Oxide process has achieved a lower Carbon footprint from both, an environmental as well as, an economic perspective.

Lower emissions - Better sustainability
while the conventional process results in GHC emissions of 4.41 mt/t of Iron Oxide, our emissions will be 2.72 mt/t.

Extended Producer Responsibility
Being the country's largest producer our sustainability efforts contribute significantly to overall GHC emission reduction.

Quality Standards
Our Products also conform to European Standards (CE marking) in addition to BIS. DCW's Synthetic Iron Oxide is also certified to ISO 9001, 14001 and 45001.



Dirox[®]

Features

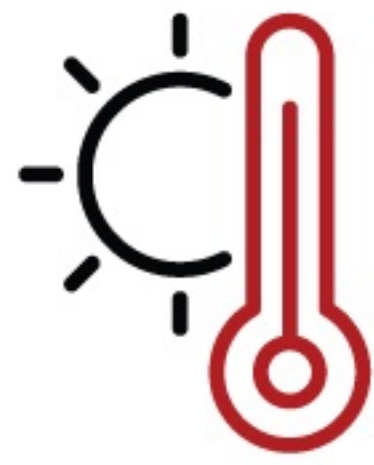
The just right mix of physical and chemical qualities, these pigments are ideal for use across a wide range of industries such as construction, coatings, plastics, paper, etc.

The country's rapidly growing infrastructure & real estate industry have been a key growth factor for this product in DCW's portfolio.



COLOURANT

High Tinting Strength, Dispersibility and Low Oil Absorption



WEATHERPROOF

UV Stability & Weatherability



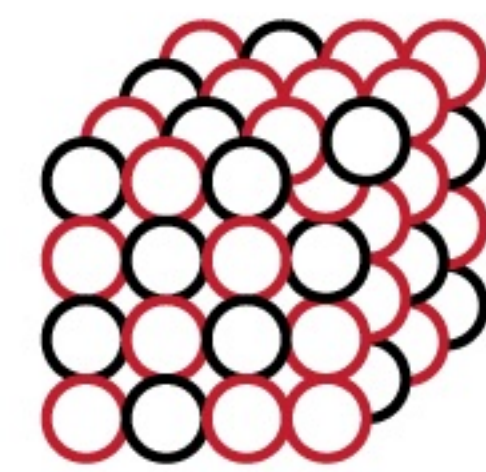
ANTI-CORROSIVE

Bleed Resistant to Solvents & Chemicals



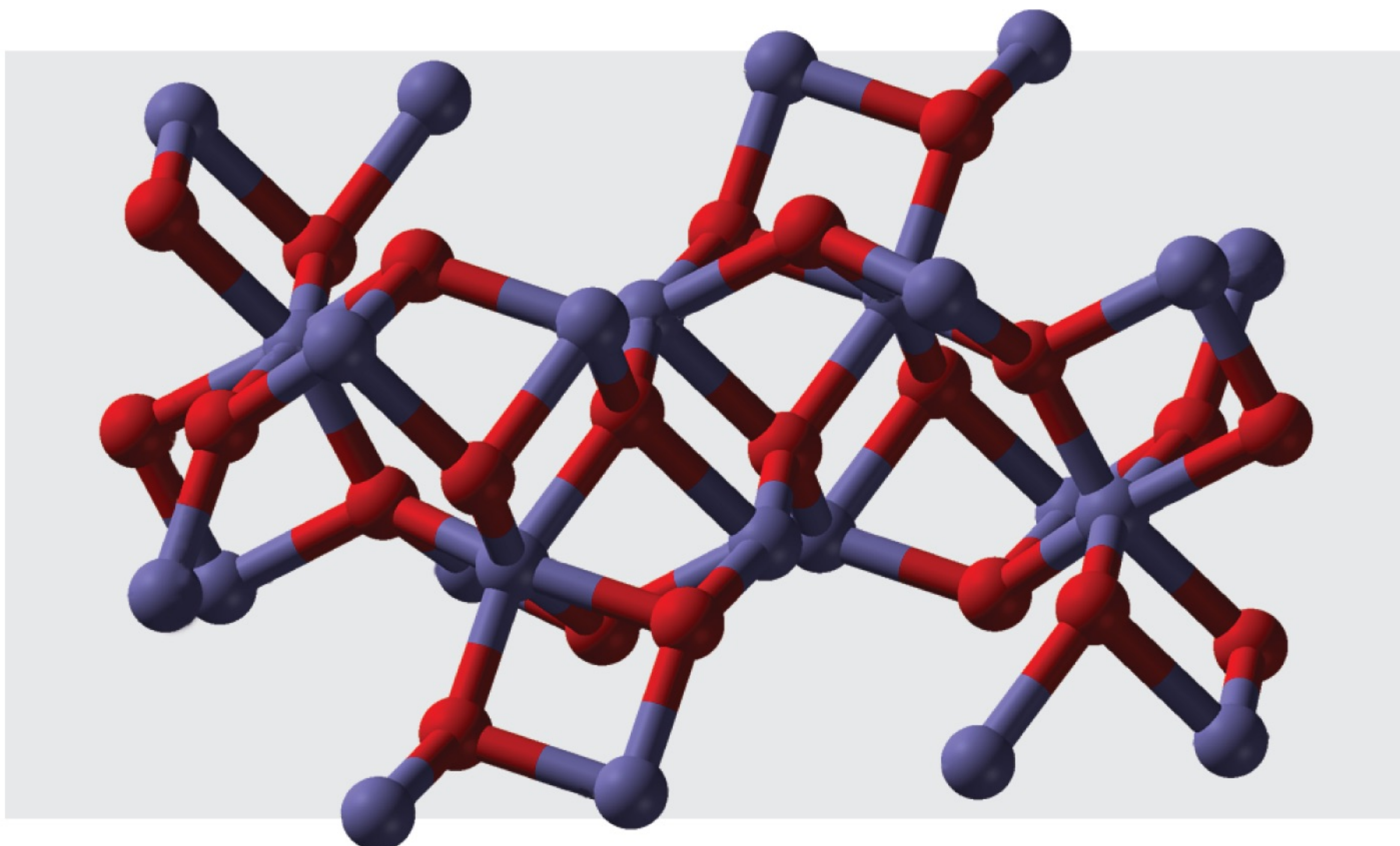
CONSISTENCY

Uniform Particle Size & Distribution



HEAVY METALS

Low Heavy Metal Content (Within Permissible Limits)



CHEMICAL FORMULA

Fe_2O_3

INPUT

Leach Liquor, Iron Scrap, Ammonia

OUTPUT

Synthetic Iron Oxide Pigment (SIOP)

Dirox[®] Applications



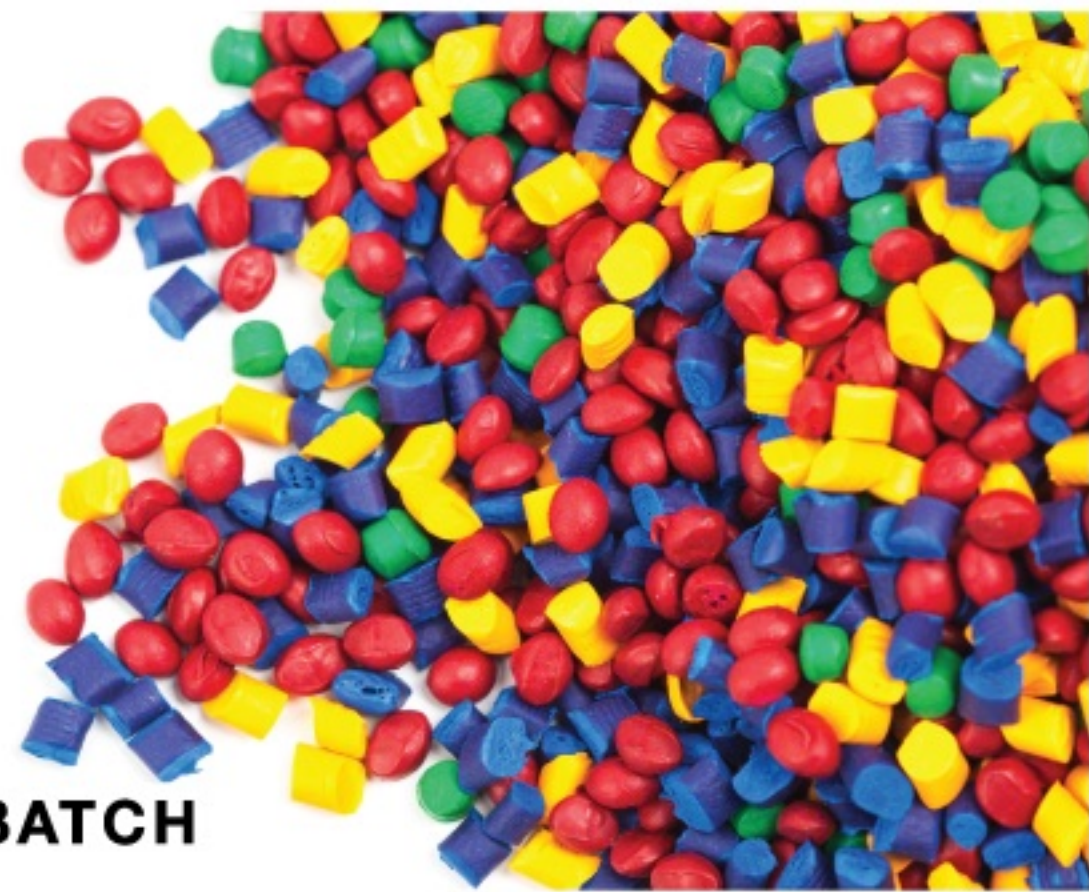
**EMULSION
& ENAMEL
PAINT**



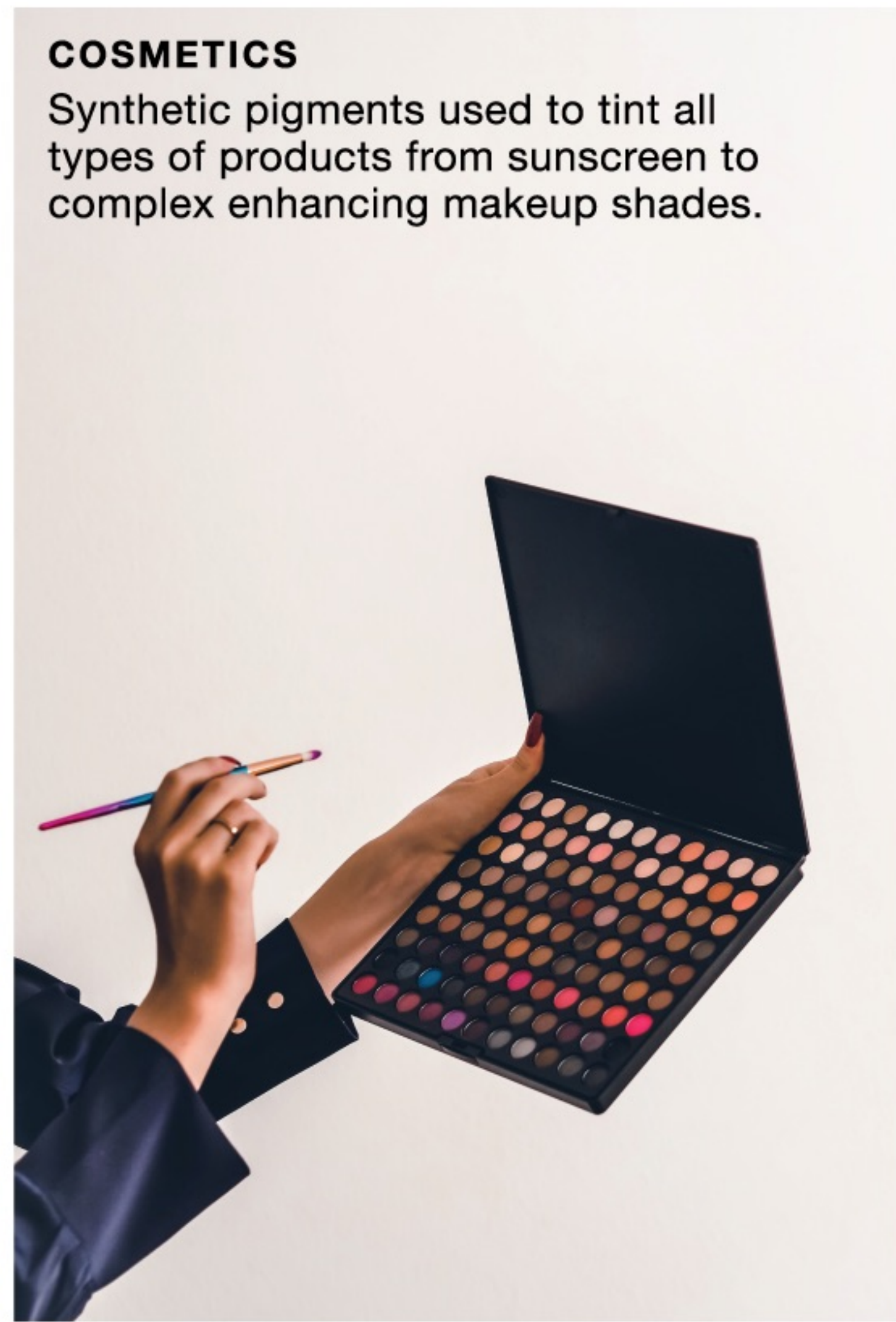
**CONCRETE
BRICKS**



**PAVER
BLOCKS**



**PLASTIC
MASTERBATCH**



COSMETICS

Synthetic pigments used to tint all types of products from sunscreen to complex enhancing makeup shades.

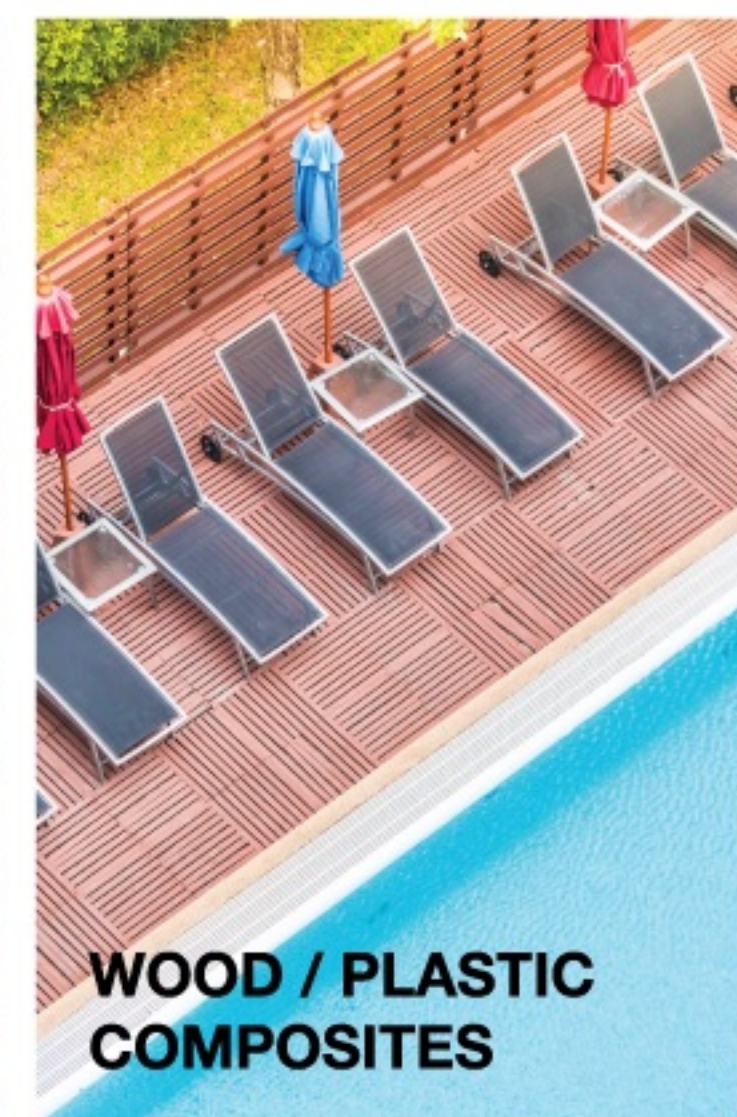


FERTILISER

Dirox iron oxide pigments are ideally suited for colouring fertilizers for better dispersibility and low heavy metal content.



**FLOOR
TILES**



**WOOD / PLASTIC
COMPOSITES**



**ROOF
TILES**

Dirox[®] Technical Data Sheet

DIROX [®] Colour Grades	Colour Index	Fe ₂ O ₃ Content (%)	Water Soluble Content (Max %) DIN 787/3	Sieve Residue 325 Mesh (Max %) DIN 53-195	Oil Absorption (gm / 100 gm) DIN ISO 787/5	Bulk Density (gm/ml) DIN ISO 787/11	Moisture Content (Max %) DIN ISO 787-2	pH DIN ISO 787/9	Tinting Strength (%)	Particle Shape
RED GRADES										
101	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
129	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
110	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
120	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
130 E	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
445	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
130 A	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
130	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
3097	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
136	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
8097	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
190/473	PR 101	96 - 99	0.5	0.4	15 - 20	0.9 - 1.2	1.0	4 - 8	97 - 103	Spherical
YELLOW GRADES										
910	PY 42	86 - 89	0.5	0.4	30 - 40	0.4 - 0.7	1.0	4 - 8	97 - 10	Acicular
920	PY 42	86 - 89	0.5	0.4	30 - 40	0.4 - 0.7	1.0	4 - 8	97 - 10	Acicular
313	PY 42	86 - 89	0.5	0.4	30 - 40	0.4 - 0.7	1.0	4 - 8	97 - 10	Acicular
ORANGE GRADES										
960	PR 101 PY 42	90 - 91	0.5	0.4	22 - 30	0.4 - 0.8	1.0	4 - 8	95 - 105	Irregular
BROWN GRADES										
610	PB 11 & PR 101 77499/77491	88 - 90	0.5	0.2	~ 24 . 0	0.8 - 1.2	2.5	5 - 8	95 - 105	Irregular
660	PB 11 & PR 101 77499/77491	88 - 90	0.5	0.2	~ 24 . 0	0.8 - 1.2	2.5	5 - 8	95 - 105	Irregular
686	PB 11 & PR 101 77499/77491	88 - 90	0.5	0.2	~ 24 . 0	0.8 - 1.2	2.5	5 - 8	95 - 105	Irregular
BLACK GRADES										
318	PB 11 77499	94 - 98	0.5	0.3	18 - 24	0.9 - 1.2	1.5	5 - 8	95 - 105	Spherical
330	PB 11 77499	94 - 98	0.5	0.3	18 - 24	0.9 - 1.2	1.5	5 - 8	95 - 105	Spherical
780	PB 11 77499	94 - 98	0.5	0.3	18 - 24	0.9 - 1.2	1.5	5 - 8	95 - 105	Spherical

Dirox[®] Shade Card

IS 44:1991
VML-6100036379



	MASS TONE	REDUCED TONE PIGMENT: TiO ₂ 1:3
RED		
101		
110/129		
120		
130 E		
445		
130 A		
130		
3097		
136		
8097		
190/473		
YELLOW		
910		
920		
313		
ORANGE		
960		
BROWN		
610		
660		
686		
BLACK		
318		
330		
780		

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