

Silica Sand

Product Description:

Silica Sand is a naturally occurring granular material composed mostly of SiO_2 (Silicon Dioxide) which is crystalline in nature.



Features include:

Inert	
Colour:	Off-white/Cream
Hardness:	7 Mohs
Sphericity:	0.7 – 0.78
Melting Point:	1610°C
Specific Gravity:	2.62 – 2.65

Application:

- ◇ Used in mortars to enhance durability and improve structural strength.
- ◇ Properly graded silica sand is used as filler in Epoxy Self Level as well as Epoxy Screed.
- ◇ Used as Antiskid for Epoxy / PU / Polyurea / Polyaspartic flooring.
- ◇ Used as decorative aggregate in Plaster, Concrete, Cementitious/ Epoxy Terrazzo and Resin Bound Flooring.
- ◇ To improve brightness, reflectance, tint retention, colour consistency resistance to dirt and mildew in paints.
- ◇ To enable crack resistance, low weathering properties and low oil absorption in paints.
- ◇ Helps increase pigment loading as well as improve finish colour in paints.

Available Grades

0 – 0.3 mm / 0 – 0.6 mm / 0.3 – 0.6 mm / 0.6 – 1.18 mm / 0.5 – 1 mm / 0.6 – 1.7 mm / 1.18 – 2.36 mm / 2.36 – 5 mm

Can be customized to customer specification

Limestone

Product Description:

Limestone is a sedimentary rock composed primarily of calcium carbonate in the form of mineral calcite.



Features include:

Colour:	Grey/Off white
Hardness:	3 Mohs
Specific Gravity:	2.7

Application:

- ◇ Used for manufacture of Dry Mortar viz. Plaster, Floor Screed, Concrete Repair Products, Grout etc.
- ◇ Used as aggregate in Resin Bound flooring systems.
- ◇ Used as aggregate in Terrazzo Flooring Systems.

Available Grades

0 – 0.6 mm / 0.3 – 0.6 mm / 0.6 – 1.18 mm / 1.18 – 2.36 mm / 2.36 – 5 mm / 0.6 – 1.7 mm / 0 – 5 mm / 5 – 10 mm / 0 – 2 mm / 10 – 20 mm

Can be customized to customer specification

Quartz Sand

Product Description:

Quartz Sand is produced out of quartz rocks and it consists mostly of SiO_2 (Silicon Dioxide). It is crystalline in nature.



Features include:

Inert	
Colour:	White
Hardness:	7 Mohs
Melting Point:	1610°C
Specific Gravity:	2.63 – 2.66

Application:

- ◇ Used in Decorative Plasters and Colour Concrete to improve whiteness and enhance strength.
- ◇ Used as decorative aggregate in Resin Bound flooring systems.
- ◇ Used as decorative aggregate in Cementitious and Epoxy Terrazzo flooring.
- ◇ Used in the production of Tile Glue and Grout to enhance strength as well as improve whiteness.

Available Grades

0 – 0.3 mm / 0 – 0.6 mm / 0.3 – 0.6 mm / 0.6 – 1.18 mm / 0.5 – 1 mm / 0.6 – 1.7 mm / 1.18 – 2.36 mm / 2.36 – 5 mm / 5 – 10 mm / 10 – 20 mm

Can be customized to customer specification

Marble Chips

Product Description:

Marble chips are made from crystalline marble rocks which contains mostly of Calcium Carbonate.



Features include:

Colour:	White
Hardness:	3 Mohs
Specific Gravity:	2.68
Crystalline	
React with acid to form calcium chloride and carbon dioxide	
Not flammable	

Application:

- ◇ Used in Decorative Plasters and Colour Concrete.
- ◇ Used as decorative aggregate in Resin Bound flooring systems.
- ◇ Used as decorative aggregate in Cementitious and Epoxy Terrazzo flooring.
- ◇ Used in the production of Tile Glue and Grout.

Available Grades

0 – 0.3 mm / 0 – 0.6 mm / 0.3 – 0.6 mm / 0.6 – 1.18 mm / 0.5 – 1 mm / 0.6 – 1.7 mm / 1.18 – 2.36 mm / 2.36 – 5 mm / 0 – 5 mm / 5 – 10 mm / 10 – 20 mm

Can be customized to customer specification

Silica Flour

Product Description:

Silica flour is finely ground silica. It is simply made by grinding pure silica sand / quartz to a very fine powder.



Features include:

Colour: White/Off-white
Density: 2.63 – 2.66 g/cm
Solubility: Not soluble in water or acid
Hardness: 7 Mohs

Application:

- ◇ Used for Oil Well Cementing.
- ◇ Used as Filler in Epoxy Self Level and Epoxy Paints.
- ◇ Silica Flour helps paints / coatings to provides resistance against abrasive actions and chemical attack. Self-cleaning exterior wall coatings and heavy-duty offshore or marine paints are typical examples.

Available Grades

10 Micron / 25 Micron / 45 Micron / 75 Micron / 100 Micron / 150 Micron

Talc

Product Description:

Talc is a clay mineral composed of hydrated magnesium silicate with chemical formula $Mg_3Si_4O_{10}(OH)_2$. The quality of Talc is determined with respect to purity, brightness and whiteness.



Features include:

Colour: White
Hardness: 1 Mohs
Specific Gravity: 2.58

Application:

- ◇ Used as an anti-sticking agent, an anti-caking agent, a lubricant, a carrier, a thickener, a strengthening filler, a smooth filler, and an adsorbent in paints and coatings.
- ◇ Talc's lamellar platelets make paint easier to apply and improve cracking resistance and sagging.
- ◇ Used as extender in paints and coatings to improve hiding power and titanium dioxide efficiency.
- ◇ Used to increase the chemical resistance and weatherability of the paints and coatings.
- ◇ Used to improve corrosion resistance and paint adhesion in Anti-Corrosion Primers.
- ◇ Increases coverage of paints and coatings. Also enhance matting.
- ◇ As Super Plasticizer for the formulation of Cement Pour Concrete to be used for boreholes sealing in rocks.

Available Grades

45 Micron / 10 Micron

Calcium Carbonate

Product Description:

Calcium Carbonate powder is produced by grinding limestone or marble chips containing calcium carbonate.



Features include:

Insoluble in water
Reacts with acid to form Calcium Chloride
Colour: White/Off-white
Hardness: 3 Mohs
Specific Gravity: 2.68

Application:

- ◇ Used as an extender, an agent to either reduce or enhance gloss, an extender / spacer for titanium dioxide, a rheology modifier and as a paint and coating additive to densify the product.
- ◇ Helps relatively dense lithopone to stay in suspension and not sink to the bottom.

Available Grades

45 Micron / 75 Micron / 100 Micron / 150 Micron

Dolomite

Product Description:

Dolomite is Calcium Magnesium Carbonate. It is harder and denser than calcite, and slightly more acid resistant.



Features include:

Colour: White/Off-white
Hardness: 3.5 – 4.0 Mohs
Specific Gravity: 2.85

Application:

- ◇ Used for manufacture of Dry Mortar viz. Plaster, Floor Screed, Concrete Repair Products, Grout etc.
- ◇ Used as aggregate in Resin Bound flooring systems.
- ◇ Used as aggregate in Terrazzo Flooring Systems.
- ◇ Used as a Filler in paints.
- ◇ It is a white Extender which does not interfere with paint colour and give opaqueness to paint film.

Available Grades

0.3 – 0.8 mm / 0.5 – 1.0 mm / 0.6 – 1.7 mm / 1 - 3 mm / 3 - 6 mm / 5 - 10 mm

Feldspar

Product Description:

Feldspar consist of alumina silicates of potassium, sodium and calcium. If potassium is high, it is called potash feldspar. If sodium is high, it is called soda feldspar.



Features include:

Good Dispensability
Resistant in Frosting
Specific Gravity: 2.50
Hardness: 6 Mohs

Application:

- ◇ Multi-functional Fillers and Extenders in paints and coatings for their good dispersibility, chemical inertness, stable pH and high resistance to abrasion.

Available Grades

75 Micron / 45 Micron

China Clay

Product Description:

China Clay otherwise called KAOLIN is a clay which is soft, earthy and usually white. The characteristics of China Clay is determined by the Alumina (Al_2O_3) content.



Features include:

Specific Gravity: 2.69
Hardness: 2.25 Mohs
Colour: White/Off-white

Application:

- ◇ In its altered Metakaolin form, as a pozzolan; when added to a concrete mix, metakaolin accelerates the hydration of Portland Cement and takes part in the pozzolanic reaction.
- ◇ Provides tank stability, film smoothness, corrosion resistance, edge film build and uniformity.
- ◇ Used in Automotive Primers and are characterized by low salt content, easy dispersion, good throwing power and proven performance.
- ◇ Used as Extenders. Extend the titanium dioxide white pigment and modify gloss levels.
- ◇ Imparts toughness to coatings and tends to reinforce the films
- ◇ Used in latex paints due to low solubility in aqueous phase and ability to impart good brushing and leveling.
- ◇ As it settles slowly in water and having low solubility in water, it is commonly used in water based paints.

Available Grades

Available as Grounded, Hydrous, Meta and Calcined in various micronized sizes depending on application.

Mica

Product Description:

Mica or Muscovite is a platelet or lamellar structured industrial mineral which can be described as potassium aluminum silicate. Mica powder is made by grinding mica flakes.



Features include:

Colour: White/Silver/Gold
Specific Gravity: 2.75
Hardness: 8 Mohs

Application:

- ◇ Used as a Fire Resistant material in Cementitious Spray Mortars and Fiber Cement Construction Panels.
- ◇ Acts as a Filler and Extender, provides a smooth consistency, improves the workability of the compound, and provides resistance to cracking.
- ◇ Used as a Pigment Extender that also facilitates suspension due to its light weight and platy morphology, reduces chalking, prevents shrinking and shearing of the paint film, increases the resistance of the paint film to water penetration and weathering and brightens the tone of coloured pigments.
- ◇ Promotes paint adhesion in aqueous and oleo resinous formulations.

Available Grades

Available in flakes as well as micronized powder.

Barites (Barium Sulphate)

Product Description:

Barite (Barium Sulphate) is a mineral with over 90% $BaSO_4$ in it. It is known for its density.



Features include:

Colour: White/Yellow/Grey
Hardness: 2.5 - 3.5 Mohs
Specific Gravity: 4.1 and 4.2
Low oil absorption
Low specific surface area
Fast flowing
Granular structure
Vitreous, pearly luster
Insoluble in water and acids

Application:

- ◇ Used as a Weighing Agent in Drilling Mud.
- ◇ Used as Filler / Extender in marine paints, coatings and sealants to improve the coating thickness, for wear resistance, for water resistance, for heat resistance, for surface hardness, and for impact resistance.

Available Grades

Available with 4.1 and 4.2 specific gravity in micronized sizes.

Gypsum Powder

Product Description:

Gypsum powder is a soft sulfate mineral composed of calcium sulfate dehydrate. When gypsum is heated in air it loses water and converts to calcium sulfate hemihydrate



Features include:

Colour and Appearance: White/Off-white
Specific Gravity: 2.31 – 2.33
Hardness: 1.5 – 2.0 Mohs

Application:

- ◇ Used in gypsum-based Self-Leveling Screeds.
- ◇ Used as a Binder for producing fire resistant and temperature resistant products.

Available Grades

75 Micron

Cenosphere

Product Description:

Cenosphere is a lightweight, inert, hollow sphere made of silica and alumina and filled with air or inert gas, typically produced as a byproduct of coal combustion at thermal power plants.



Features include:

Colour: Offwhite to light grey
Density: 0.4 – 0.8 g/cm³

Application:

- ◇ Used as a Structural Light Weight Filler.
- ◇ Used in coatings to control infrared radiation, giving those coatings an advantage over ones that merely attempt to limit thermal conductivity.

Available Grades

150 Micron / 300 Micron / 500 Micron

Microsilica

Product Description:

Microsilica also known as silica fume, is an amorphous polymorph of silica. It is produced out of byproduct of the silicon and ferrosilicon alloy production.



Features include:

Colour: Black/Grey
Melting Point: 1610 °C
Silica Content: 92% +
Amorphous polymorph of silicon dioxide

Application:

- ◇ Reduces thermal cracking, improves durability, and increases strength for concrete.
- ◇ Decreases the average size of pores in the cement paste.
- ◇ The extremely fine and non-porous nature of pyrogenic silica or fumed silica, make it an ideal Thickening and Bulking Agent with outstanding thixotropic behavior.
- ◇ Reduces viscosity or thickness with extended agitation or shaking.
- ◇ Gives the highest chemical durability in industrial coatings.
- ◇ For improved abrasion resistance and scratch resistance of the film.

Available Grades

45 Micron

Hydrated Lime

Product Description:

Hydrated Lime (Calcium Hydroxide) is a redefined hydrate with chemical formula Ca(OH)₂. Traditionally called Slack Lime.



Features include:

Small median particle size
Good flow properties
High surface area
Colour: White
Bulk Density: 550 kg/cum

Application:

- ◇ Used in modern cement based Mortars mainly for its properties as a Plasticiser.
- ◇ Mortars made with lime and cement exhibit superior workability balanced with appropriate compressive strength as well as low water permeability and superior bond strength.
- ◇ As a component of mortars, Exterior Rendering and Interior Plasters.
- ◇ As a Binder in the productions of bricks, aircrete, fire resistant board and concrete.
- ◇ As an Anti-Slipping Agent in the production of asphalt and tarmac for road construction.
- ◇ Used in paints as a Protective Agent, as a Pigment Component, as a Chemical Reagent, and as a Bonding Agent.

Available Grades

90 Micron