

Description

Super Ceramic is an advanced functional reinforcing ceramic composite with microsphere engineered structure used as triple function high performance filler materials:

- Crack Repair:** Twice as much as resin quantity (200% by volume)
- Screeding:** Same quantity as resin used (100% by volume)
- SlipRes:** 10% (by Volume) of the quantity of resin used.

Super Ceramic with engineered spherical structure and ceramic composition offers advanced reinforcing filler functionality with many benefits such as lightness, high compressive strength, thermal resistance (high melting point), inert and chemically unreactive.

The unique hollow and lightness property of microsphere Super Ceramic materials allows the spheres rise to the surface due to its low density and reduced specific gravity. These unique properties also result in enhanced rheology, better flow properties and easy to mix, easy to use and easy to apply.

Most Epoxy resins have an average density of 1.2 g/mL, while the Super Ceramic has much lower density of 0.7 g/ml or less, resulting in some of the spherical particles rising to the surface, creating unique texture and Slip Resistant finish surface. Those suspended spherical particles and those entrapped into the body of the Epoxy matrix can participate into reinforcement of epoxy matrix structure, resulting in its enhanced compression strength and improved other physical properties.

Features

Super Ceramic can be used with any of SHIMICOAT Epoxy or Sealer products offering the following features and benefits:

Features	Benefits
Cost reduction	Over 7% savings on resin, due to optimised surface area to volume ratio.
Super Low Density	Blended products are lighter and more efficient , easier to apply and non-sagging.
Improved Rheology	Less than 100micron in size engineered spherical structure, offering massive surface contact, easy to roll-on in matrix and flow.
Triple Applications	Crack Repair & Filler Materials Screeding, Leveling and Surface Maintenance SlipRes Slip Resistant Floors

In addition to above, Super Ceramic offers the following benefits:

- Non-Sagging Filler Materials,
- Engineered for high compression strength and high-pressure resistance
- Improved wear and abrasion resistance resulting from hardness and ceramic composition of Slip Resistant materials
- Enhanced acoustic properties owing to its capacity to absorb sound and vibration within the Epoxy matrix
- Improved Fire Rating performance due to its non-combustible nature and super high temperature melting point materials used within the body of Epoxy
- Colour-fast and superior gloss retention due to spheres being uniformly being coated with Epoxy and naturally rising, surfacing and positioning over the top surface
- Ideal Epoxy Coating over the spheres' outer layer, due to the surface tension.
- Modern, Hygiene, Functional and Economical.
- Safe and Compliance with most regulatory.
- Highly resistant to chemical attack and pedestrian or vehicular traffic.

- Long lasting and easily maintained with good resistance to a wide range of domestic and commercial chemicals.
- Seamless, easy to clean and maintain.
- Superior Chemical Resistant Finished surface
- Engineered formulation for trafficable area with high mechanical strength
- DIY Friendly, easy to apply and compatible with many resin systems
- Engineered for high compressive strength,
- Low density Super Ceramic assist in improving flow regime/rheology, reduces sagging and eliminate possible shrinkage when compared to conventional filler materials.
- Enhances impact resistance and surface durability.
- Improve ware and abrasion resistant of finished surface.
- Inert, Non-Reactive non-absorbent with all resins.
- Ideally suitable with single or dual pack resin systems
- Triple Applications:
 - Crack Repair & **Filler Materials**
 - **Screeding, Leveling and Surface Maintenance**
 - **SlipRes Slip Resistant Floors**
- Very easy to use and apply
- Fire and thermal Resistance (up to 1,800°C)
- Chemical Resistant (Acid, Alkali and Solvents)
- Acoustic & Noise Insulation
- Easy match to any décor “off-white colour”
- Colour and gloss retention
- Environmentally friendly containing inert inorganic composition
- Economical.

Uses

Crack Repair, Screeding and Slip Resistant Floors (SlipRes)

Grit Sizes

No	Grit Size	Oil-Wet Inclining Platform Test	Wet Pendulum Test
1	Fine	R9	P2
2	Medium	R10	P3
3	Coarse	R11	P4

Coarser floor with higher R/P rating is available with SlipRes Xtra Grip.