PRODUCT DATA SHEET

ALTEX COATINGS LTD
Industrial & Marine
ANCILLARY PRODUCTS

Non-Skid Particles

Additive for Anti-Slip Properties

FEATURES

Fine | Medium | Coarse:

Three grades of Particles available to achieve the desired finish.

May be incorporated into a wide range of coatings, either as an intermediate coat, or as a finish coat.

Either broadcast into a wet film, or mixed and roller applied. Fine grade may be spray applied.

All products are sieved grades, meaning the finish is consistent and attractive, with no clumping of dust particles.

Medium and Coarse grades are highly abrasion resistant, with over 20 years of proven service in many different industrial and marine situations.

Typical Systems:

- Straight epoxy high builds, roller applied with aggregate as a single coat, or broadcast & seal coated with epoxy.
- Epoxy high builds, broadcast filled, or roller applied, with polyurethane finish coat to seal.
- Spray applied polyurethane finish coats incorporating fine Non-Skid Particles.

RECOMMENDED USES

The Altex range of Non-Skid Particles offers the end user a diverse set of options, both in particle size and application method.

Coarse Grade:

Used in Commercial Shipping, Freighters, Fishing Vessels, Ferries etc.

Industrial facilities, pulp mills, tank platforms, tank roofs, production floors and other high-risk areas.

Flooring, as an abrasion resistant non-skid finish, where forklift traction is required.

Medium Grade:

Use in any of the above situations, as well as Charter Boats, Passenger Ferries, Commercial Fishing, or other situations where a balance between traction, wear and cosmetics are important. The finish achieved with the Medium grade has greater visual appeal than the Coarse grade.

Fine Grade:

Primarily used on the decks of pleasure craft, where it achieves a pleasing stippled texture, while providing excellent non-skid properties.
Spray application enhances the finish, and achieves a professional looking, even film.

See overleaf for more details on achieving good traction with non-skid surfaces.

SPECIFICATION DATA

Product Type:	**Fine grade:** Specialised synthetic bead **Medium & Coarse grade:** Ceramic chips
Colours:	White to Off White
Packaging:	**Fine grade:** 0.52 kg (Packed in a 1L container) **Medium grade:** 2 kg (Packed in a 2L container) **Coarse grade:** 2 kg (Packed in a 2L container) Contents may settle after packing
Mix Ratio:	See overleaf
Storage:	Store under cool, dry conditions
Shelf Life:	60 months at 24°C When kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Particle Grade/Size:	**Fine grade:** 0.52 kg (1L) ≤ 300 microns. Similar to 80-100 grit* **Medium grade:** 2 kg (2L) 200-600 microns Similar to 30-40 grit* **Coarse grade:** 2 kg (2L) 600-1,200 microns Similar to 10-14 grit

**These grit grades are indicative of the finish achieved when the aggregate is broadcast into the wet paint film to achieve saturation.*
The coating into which the aggregate is broadcast will have an influence over the nature of the finish.
The application of a topcoat over the aggregate will further influence the ultimate profile of the surface.
See overleaf for further information.

DIRECTIONS FOR USE

Mix Ratios:

Low Build Coatings: 50g Fine Non-Skid Particles per **mixed** litre of finish.
For denser finishes up to 100g of Fine Non-Skid Particles per **mixed** litre of finish may be used.

High Build Coatings: Mix 2 kg of Medium or Coarse grade particles with 5 litres of the selected high build coating, making a total liquid volume of 6 mixed litres.
(these are guide ratios only)

Application Techniques:

Broadcast Method:
Generally used with epoxy high build coatings such as Carboguard 636 XT, and the Medium or Coarse grades of particles. In this method the particles are dropped onto the freshly applied coat of paint, so as to allow them to partially "sink" into the film. This can be achieved either by using a can or jar with holes drilled in the lid (good for smaller areas), or by "throwing" the material, in an upward motion so that the particles fall vertically into the film. It is important to ensure that the coating being "filled" is freshly applied - this typically means rolling and broadcasting in stages, or working with one person rolling, and another broadcasting.
Using this method requires that the entire surface be evenly saturated with particles and consumes more aggregate.
Once cured, the excess material is swept up and a subsequent coat (epoxy or polyurethane) is applied.

Roller Application:
Typically employed with epoxy high build coatings (the particles tend to sink before application when mixed with polyurethane coatings).
The recommended ratio of Medium & Coarse Non-Skid to paint is 2 kg of Particles to 5 litres paint, making a total liquid volume of 6 mixed litres.
Additional particles may be added - the main limitation is maintaining a suitably wet film to roll.
It is important to ensure the particles do not settle before being applied - agitate the mix regularly.

Spray Application:
This technique only applies to the Fine grade particles and is usually employed with polyurethane finish coats - typically on the decks of Pleasure Boats using a hand held pressure pot, or a siphon set up. Aggregate is mixed at the required ratio with the coating, and carefully thinned so as to achieve acceptable fluid flow. Tip size should be 1.6 to 2mm. Reduce the pot pressure to 4 to 8 lbs and maintain a high atomisation pressure of 60-80 lbs. In this way the equipment tends to operate in a siphon cup way, allowing the fluid needle to be kept slightly open without material being released, thus clearing the orifice continually.
The coating is applied while frequently agitating the pressure pot to maintain the particles in suspension.
Other techniques will achieve the desired effect, we recommend trialing spray setups before applying to the main surface.

Best Results:
In some situations, a finer grade non-skid finish will provide superior traction compared to a coarser grade finish.

The degree of non-slip achieved is dependent on several factors: The coating used, the grade and nature of the particle applied, the density of the applied particles, application techniques and the type of footwear worn.

We recommend trialling different non-skid grades, application density and application methods to determine the most suitable finish in critical areas.

PRECAUTIONS

For industrial & DIY use: Read and follow all the caution statements on this Product Data Sheet, the product label, and the Safety Data Sheet (SDS) for health and safety information prior to use.

Dust Hazard
Non-Skid Particles are non-toxic. Avoid getting particles in eyes.

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