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## GLASS BEADS FOR REFLECTIVE DISPLAY

Rolco's glass spheres (beads) are ideal for use as a reflectorizing material for signs, traffic paint and safety striping. The spheres can also be utilized as a smalt, a paint thickener and as a surface grit.

The spheres are manufactured of glass with a silane-type adherence coating for high resistance to traffic wear, decomposition, etching under atmospheric conditions, dilute acids, alkalies, paint film constituents and to the effects of weathering. The glass spheres are colorless, transparent and free from milkiness and excessive air bubbles. They have a refractive index between 1.50 and 1.65 when tested by liquid immersion method at 25 degrees centigrade.

They are spherical in shape containing not more than thirty (30) percent of irregular shaped particles. They are reasonably free of sharp angular particles, milkiness, scoring or scratching. At least seventy (70) percent of the glass spheres are true when tested in accordance with ASTM-D-1155 (latest revision).

Gradation: The spheres meet the following gradation when tested in accordance with ASTM-D-1214 (latest revision).

| U.S. STANDARD SIEVE | % PASSING |
|---------------------|-----------|
| #20                 | 100 %     |
| #30                 | 80-95 %   |
| #50                 | 9-42 %    |
| #80                 | 0-10 %    |

The silica content of the glass spheres are not less than sixty (60) percent. They show no tendency to absorb moisture in storage and remain free of clusters and hard lumps. They flow freely from dispensing equipment at any time when surface and atmospheric conditions are satisfactory for painting. The spheres are coated with a silane type adherence coating designed to interact with and adhere to solvent or waterbourne traffic, sign and other graphic art coatings.

### APPLICATION:

After the paint or coating is applied and is still wet, the beads should be sifted on by means of a strainer, sieve or container such as a coffee can with punched holes of approximately 1/8 inch. Prior to placing the beads into the sifter, cover the openings by means of a cardboard or the plastic coffee

can cover. Sift the beads onto the surface in a complete layer. After the paint or coating has dried, any excess beads that do not adhere to the paint or coating can be either swept away or dumped onto a cloth and returned to the container for future use.

The beads can also be incorporated in a clear paint or coating. Place a sufficient amount of the beads into the clear material that will produce the desirable effect. Continual mixing of the beaded clear is necessary in order to prevent settling that may cause insufficient beads being applied.

When used as a thickener or paint grit, the amount mixed into the paint is subjective to the end use or the requirements of the applicator. It is important to note, that in order to be sure of good paint adhesion, sufficient paint as a binder must be present. An over abundance of beads will compromise the adhesion integrity of the paint or coating.

The conditions and use of this product are beyond Rolco's control. Directions, information, performance and results when used alone or with products of others are without warranty or guarantee, expressed or implied.

