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## AGT™ HIGH PERFORMANCE GLOW AGGREGATE

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### Material Description:

Ambient Glow Technology™ (AGT™) photoluminescent aggregates feature the highest luminosity in the world. They were specially formulated for use in concrete, terrazzo, and epoxy surfaces. AGT™ glow aggregates produce self-generating, ambient light sourcing which further enhances safety in low-light conditions while creating a unique nocturnal surface element. This perpetually charging glow aggregate will luminesce for over 12 hours after just 8 minutes of exposure to sunlight\*.

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### Aggregate Types / Sizes:

- **Glow Sand:** Fine Sand: 350mesh & Coarse Sand: 20-40mesh
- **Glow Stone:** 4mm (1/8"), 8mm (1/4"), 12mm (1/2")

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### Luminosity Colors:

- **Native Color:** off-white.
- **Glow Colors:** Emerald Yellow, Aqua Blue and Sky Blue, Plasma Purple

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### Luminosity Performance:

- **Initial luminosity:** @10min.= 420-760mcd/m<sup>2</sup>
- **Glow Persistence:** 12+ hours

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### Potential Applications:

**Exterior:** Exposed concrete, stamped concrete, concrete bike paths, concrete pedestrian paths, asphalt pavement, GFRc, precast concrete slabs, patio stones, pavers, stair treads, wall-cladding, furniture, pool surrounds, decks etc.

**Interior:** Floors, tiles, countertops, vanities, fireplace surrounds, walls, stair treads, wall-cladding etc.

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### Limitations:

AGT™ optimal performance is challenged by adjacent, competing light sources. In these applications, UV spectrum light canons can be introduced and set for 1 min. energy bursts producing peak AGT™ aggregate luminosity. Optimal glow performance is occurs in low light/no light environments.

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### Sustainability:

Environmental benefits: non-toxic, decrease in the use of electricity, decrease in light pollution, renewable ambient light source, excellent for indoor & outdoor uses.

### Potential LEED Points:

- EA Credit #1 – Energy and Atmosphere: Optimizing Energy Performance
- MR Credit #4 – Materials and Resources: Recycled Content
- ID Credit #1.1 – Innovation in Design: Exceptional Performance

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### Tests/Examinations:

- AGT™ glow aggregates work best between -20°C - +250°C.
- Does not discolor under 300-watt high mercury lamp for 1000hrs. @ 40°C w/80% humidity.
- Stable with use in combination with: water, stains, pool chemicals and epoxies etc.

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\* Based on AGT™ ULTRA Glow Stone luminosity performance.