Core Glow Project Guide:

Follow these step-by-step instructions to create your own Core Glow project

For a permanently beautiful surface that glows in the dark use Core Glow Commercial Grade Marble (Natural Stone). This glow stone can be used as a substitute for gravel aggregate for mixed-aggregate approaches and can be spread over the top layer of concrete, asphalt, and other paved surfaces.

Note: these tips are for the application of Core Glow Commercial Grade Marble (Natural Stone). To determine the best type of concrete to use for your project contact a local contractor or concrete retailer for advice on how to choose the best surface medium for your project.

Steps:
1. Choosing your Project Area
2. Determining the Best-Suited Core Glow Product for your Project
3. How Much to Purchase?
4. Ordering Your Product
5. Pre-Installation Testing
6. Application Methods
    a. loose
    b. embedded

1. Choosing your Project Area:
Core Glow works best under certain lighting conditions. Just like a plant, Core Glow has a niche habitat where it will thrive ie. glow brightly all night long.

The **optimum area** *outdoors* is in **full sunlight** during the day and removed from competing light sources during the night.

The **optimum area** *indoors* is in **a brightly lit room** that can be turned completely dark at night (ie. window coverings installed).

Other prime locations are **where you control the light conditions**: anywhere indoors, customized outdoor lighting, events, public centres, etc.

Table 1. Effects of different outdoor lighting conditions on Core Glow:

Light Source	Core Glow Result	Tips to optimize glow
Full Sunlight	**Optimum** bright glow long charge	Great choice. View on nights with a new moon or fresh cloud cover and minimize competing light sources.
Partial Sunlight	**High** medium glow long charge	Place Core Glow in an area that gets sunlight late in the day for a bright glow in the evening, plus extended nighttime charge.
Low Sunlight	**Medium** soft glow long charge	Ensure there is little to no competing light at night so you can enjoy the soft glow of your project area
No Sunlight	**Low** soft glow reduced charge charge	Core Glow will charge even in ambient light. To maximize this choose an area with plenty of natural light or consider altering your project location to ensure your glow stones will charge.

Table 2. Effects of competing light sources on Core Glow (for outdoor projects):

Note that competing light diminishes your ability to see Core Glow, not the light output of the Core Glow stone. For indoor projects you will be able to control the amount of light Core Glow receives as well as the competing light sources to achieve the best glow.

Competing light level	Example	Core Glow Result	Tips to optimize glow
None	Parks, pathways, remote and rural locations, backyards, streets with no streetlights, indoors, rarely lit locations	**Optimum** bright glow high visibility	Place glow in areas with full sunlight to ensure a bright glow and full charge.
Low	In town, neighbourhoods, between streetlights, occasionally lit locations	**High** bright glow medium visibility	Ensure glow gets a full charge and is preferentially placed away from bright areas.
Medium	Lit pathways, streets with streetlights, lit parkinglots, often lit locations	**Medium** medium glow medium visibility	Place Core Glow in areas that need a little brightening up at night such as alleyways, surprise pathways, and corridors leading passersby to a new adventure.
High	City centres, constantly lit locations	**Low** medium glow low visibility	Use Core Glow to light up dark areas, shady corners, surprise nooks and hideaways in city centres. Even better if surrounded by little patches of nature for urban oases.

Table 3. Effects of indoor lighting on Core Glow (for indoor projects):

Light Source	Example	Core Glow Result	Tips to optimize glow
Broad Spectrum, directly lit	Incandescent, fluorescent, CFL,	**Optimum** bright glow long charge	Aim your lights directly at the glow surface for ~10 minutes before turning them off for a super bright glow. Remove competing light sources for the full effect.
Broad Spectrum, ambient light	Incandescent, fluorescent, CFL, blacklights	**High** medium glow long charge	Leave lights on for 30+ minutes for a brighter immediate glow and long charge.
filtered spectrum, ambient light	Coloured incandescent bulbs, LED, lasers	**Varied** soft glow long charge	Filtered incandescent lights and lasers do not compete with Core Glow stones, but also do little to charge them. We suggest charging them with broad spectrum lights then turning on your coloured lights. Direct lights away from glow surface for a multi-coloured light and glow display.
UV Lights**	UV flashlight, UV keychain light, UV bulbs (note: requires safety gear)	**Special**** supercharged glow Short charge	UV lights are a special case. Use a handheld light to supercharge Core Glow instantly. The UV light gives an immediate bright glow, but you will need to hold light on Core Glow for 10+ minutes for a long lasting glow.

If you have a project in mind but are concerned about the light conditions please let us know and we will go over your project with you to ensure your Core Glow application results in a bright glow that lasts all night.

2. Determine the best-suited product type:

Core Glow Commercial Grade Marble (Natural Stone) comes in two sizes: 3-8mm and 8-15mm, and three colours: green, aqua, and blue. Green is suited for safety and road markings as it is the brightest glow available. Aqua is energetic and lively. Blue is mellow and ethereal. Choose one colour or a mix based on your aesthetic preferences and the desired mood for your project space. We love seeing blue used in spas, secret walkways, and oasis-like bathrooms. Aqua is great for bar countertops, dancefloors, and kitchens. Green is a hit wherever- great for outdoor adventure areas, arena entryways, and public spaces.

To order a Commercial Sample Pack visit www.coreglow.ca/commercial-sample-pack/

Top left: Green Core Glow Commercial Grade Marble, Mid Left: Aqua Core Glow Commercial Grade Marble, Bottom Left: Blue Core Glow Commercial Grade Marble, Mid: Mellow and sensual glow with blue and aqua glow. Far Right: energetic nightlife mood with aqua and green glow.

3. How much to purchase?

Our basic guideline is 1lb per 16 ft^2 for high density dispersed coverage (see www.coreglow.ca/coverage/ for more information).

Formula: $\dfrac{\text{(project area in square feet)}}{16 \text{ square feet}}$ = **x** lbs of Core Glow Commercial Grade Marble (Natural Stone)

Tweak the denominator up for estimates based on lower density coverage, or down for higher density estimates.

4. Ordering your Chosen Product

You can order directly through our website www.coreglow.ca. We offer heavily discounted bulk pricing for 4lb bags. Simply click on your chosen product type and select the 4lb option before proceeding to checkout. If you require 100+ pounds for your project please get in touch with us for volume pricing information. Shipping is usually between 5-11 days from date of purchase. For large orders requiring factory-direct service shipping is 3-7 weeks.

5. Pre – Installation Testing

We highly recommend starting with a small mock up using your chosen medium before using Core Glow. This will enable you to practice your scattering method, try out a few different coverage densities, and test how long to let your medium set before spreading Core Glow across (if embedding permanently into surface). This is what the Core Glow Commercial

Sample Pack is intended for. Practice with the selection of Core Glow Commercial Grade Marble (Natural Stone) in the Commercial Sample Pack, try different colours and size combinations, and decide what you like best for your project. You can also order 1lb or 4lb bags of each colour if you would like more for your project mock-up.

Pro Tip: use a handheld lime spreader or similar instrument to achieve a uniform spread. Make sure to choose one which will accommodate an aggregate size of up to 15mm

Measurements to take during pre test (for concrete applications):

1. Time (in minutes) to allow concrete to set pre- application of Core Glow.
You need your concrete to be set enough to allow the Core Glow Commercial Grade Marble (Natural Stone) to be pushed into the surface without sinking down. *Depending on your chosen medium this time will vary.* With pre-testing we recommend placing a few stones every 20 minutes until it is clear the stones will not sink.

6. Final Installation Steps

There are many ways to incorporate Core Glow into your project. Simple scattering, topdressings, and edging with loose stones is a simple way to add a touch of Core Glow. For permanent applications you can using a bonding resin, top-dress a cement surface, mix with aggregate for an exposed-aggregate floor, and more. We have compiled some tips below for applying Core Glow.

a) **Simple scatter (topdress method):**
Simply toss Core Glow Commercial Grade Marble (Natural Stones) across you project area for a quick, easy, and gorgeous galaxy or deep-sea like surface.
Pros: fast application time, changeable, broad coverage
Cons: impermanent, Core Glow can be lost over time
Tips:
- Use a Core Path or Core Drive stabilizing system to prevent your Core Glow from sinking beneath your gravel surface. These can be found in our Merchandise section at www.coreglow.ca/merchandise/ . For commercial and public project using this method we recommend using a resin-bond to lock the glow stones in place.
- Use a handheld lime spreader to achieve an even spread of your Core Glow stones

b) **Edging:**
Group Core Glow stones together to edge a path or create your own pathway in the dark. Useful for night illumination of walking areas.
Pros: bright and noticeable glow, conserves Core Glow stones if project area is very large
Cons: no galaxy-effect
Tips: cut hole in bottom of bag (like whipped cream) to slowly pour stones along edging area

c) **Embed in Concrete Surface:**
Ensure you have your product in the correct quantity, have practiced your application method, and have the time required to wait before applying Core Glow to your surface area (we recommend determining this time in pre-testing). If your project area is very large and the window of time needed to apply the Core Glow is over an hour we suggest pouring the concrete in sections, or at a minimum keeping track of which areas were poured first to ensure your application goes smoothly. Ensure that you have proper training for the concrete installation, or are using an experienced contractor. We cannot stress enough the importance of proper site preparation!
See next page for full details.

Materials:

1. Core Glow Commercial Grade Marble (Natural Stone)
2. Medium of choice (concrete, ashphalt, etc.) along with supplier recommended gear and tools
3. Safety gear and tools (gloves, spreader, etc.)
4. Timer
5. Handheld lime spreader (optional)

Step by step Installation Process for Top-Dress Approach

1. Pour concrete mixture
2. Allow for required setting time before applying Core Glow (determined in pre-installation testing process)
3. Spread the Core Glow Commercial Grade Marble (Natural Stones) across the project surface. Use a tamp or spreader to push the aggregate into the surface, ensuring a level surface area. For large projects a roller compacter is recommended (handheld or industrial sized).
4. Let the concrete set for required time as set by manufacturer
5. Use a power sander to buff down any uneven sections or stones that have become covered with concrete.
6. Complete project with concrete cure or surface treatment as required by manufacturer.

Top Left: Place Core Glow Commercial Grade Marble (Natural Stones) along project surface area once allotted time has passed. Surface should be stiff but not hard. Top Right: Press stones into the cement surface. Bottom Left: Sand down surface area once cement has set. Bottom Right: Finished concrete surface with glow stones embedded permanently in the surface.