BaseCore Geocell
vs. Asphalt vs. Concrete

The Smarter Choice for Parking Lots, RV Parks and Commercial Lots

Comparison Overview:

Asphalt

- **Environmental Impact:** Impermeable surface leads to significant stormwater runoff.
- **Heat Absorption:** Contributes to urban heat islands, with high surface temperatures.
- **High Maintenance:** Requires frequent resealing, patching, and resurfacing over time.
- **Extensive Subbase Needs:** Requires 8–12" of compacted aggregate for stability.

Concrete

- **Environmental Impact:** Impermeable, contributing to runoff, but some designs can incorporate permeable additives.
- **Heat Absorption:** Retains heat, adding to urban heat islands, though less than asphalt.
- **High Durability:** More resistant to wear and tear but prone to cracking under extreme conditions.
- **Extensive Subbase Needs:** Typically requires 10–12" of compacted aggregate for stability and longevity.
- **Maintenance Requirements:** Needs periodic joint sealing and repairs for cracks and spalling.

BaseCore Geocell

- **Eco-Friendly Design:** Permeable system allows natural water infiltration, reducing stormwater runoff.
- **Temperature Regulation:** Aggregate infill remains cooler, mitigating heat buildup.
- **Minimal Maintenance:** Long-lasting and resistant to cracking or shifting.
- **Efficient Installation:** Requires only 4–8" of aggregate, reducing material and labor costs.

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Material & Cost Breakdown (50,000 sq. ft. Example)

Category	Asphalt	Concrete	BaseCore Geocell
Material Cost	$3–$7 per sq. ft. ($150,000–$350,000	$4–$10 per sq. ft. ($200,000–$500,000)	~$1.75 per sq. ft. ($87,500)
Subbase (#57 Stone)	8" depth (~800 tons, $33,600)	10" depth (~1,000 tons, $42,000)	4" depth (~350 tons, $14,700)
Total Material Cost	$183,600–$383,600	$242,000–$542,000	$102,200
Installation Time	Long (labor-intensive prep and paving)	Moderate (requires curing time)	Faster (modular system, minimal prep)
Maintenance (10 Years)	$$$ (resealing, patching, resurfacing)	$$ (crack repairs, joint sealing, spalling fixes)	Minimal (occasional infill replenishment)

Why BaseCore Geocell Outperforms Asphalt and Concrete

1. **Lower Material Costs:** Significantly reduced aggregate and installation costs compared to both asphalt and concrete.
2. Sustainability: A permeable system reduces stormwater runoff and recharges groundwater, an advantage over both impermeable asphalt and concrete.
3. **Temperature Benefits:** Cooler surface temperatures compared to asphalt and concrete, reducing heat island effects.
4. **Durability:** Resistant to cracking, potholes, and shifting, unlike asphalt and concrete, which are prone to wear and tear.
5. **Minimal Maintenance:** Avoid recurring costs like resealing, resurfacing, or joint sealing needed for asphalt and concrete.

Faster Installation: Requires less aggregate and minimal preparation, reducing labor and installation time.

Ready to Build Smarter?

Schedule a site evaluation to see if BaseCore is right for you.
Request a tailored cost comparison for your project.

Visit www.basecore.co Today!