

## Math Sheet

- One cubic yard of GraniteCrete covers 108 square feet at a 3 inch depth.
- One cubic yard of GraniteCrete covers 82 square feet at a 4 inch depth.
- Calculation example for material amounts (**Residential**) 1000 square feet by 3 feet wide:  $1000 \times 3 = 3,000$  square feet  $\times 0.25$  (**3 inches** is 0.25 of a foot) = 750 cubic feet divided by 27 (27 cubic feet in a cubic yard) = 28 cubic yards of decomposed granite. 28 cubic yards  $\times 1.5$  (1 cubic yard decomposed granite equals 1.5 tons) = 42 Tons decomposed granite.
- Calculation example for material amounts (**Commercial**) 1000 square feet by 3 feet wide:  $1000 \times 3 = 3,000$  square feet  $\times 0.33$  (**4 inches** is 0.33 of a foot) = 990 cubic feet divided by 27 = 37 cubic yards of decomposed granite = 55.5 Tons decomposed granite.
- 2 sacks of GraniteCrete Admixture per cubic yard for Residential applications.
- 3 sacks of GraniteCrete Admixture per cubic yard for Commercial applications.
- Residential Application – (2 bag mixture) The aggregate/decomposed granite (DG) is mixed with GraniteCrete admixture at a 19:1 ratio (19 units of DG to 1 unit of GraniteCrete, measured in volume).
- Commercial Application - (3 bag mixture) The ratio for commercial applications is 12.5:1 (12.5 units of decomposed granite to 1 unit of GraniteCrete, measured in volume).

- Residential Calculation: For computing exact amounts of decomposed granite or, Maximum Dry Density (127.5 pcf {pounds per cubic foot} with an optimum water content of 9.6% (as per our laboratory results):  $127.5 \text{ pcf} \times 27 \text{ (feet per cubic yard)} = 3,442.5 \text{ pounds per cubic yard (decomposed granite and GC Admixture in a "compacted" cubic yard. } 3,442.5 \text{ minus } 170 \text{ lbs. (2-85 lb. sacks of GC Admixture) = } 3,272.5 \text{ divided by } 2,000 \text{ lbs. (pounds per ton) = } 1.64 \text{ tons per cubic yard. For example: } 20 \text{ cubic yards decomposed granite} \times 1.64 \text{ equals } 32.8 \text{ Tons.}$
- Commercial Calculation: for computing exact amounts of decomposed granite or, Maximum Dry Density (127.5 pcf {pounds per cubic foot} with an optimum water content of 9.6% (as per our laboratory results):  $127.5 \text{ pcf} \times 27 \text{ (feet per cubic yard)} = 3,442.5 \text{ pounds per cubic yard (decomposed granite and GC Admixture in a "compacted" cubic yard. } 3,442.5 \text{ minus } 255 \text{ lbs. (3-85 lb. sacks of GC Admixture) = } 3,187.5 \text{ divided by } 2,000 \text{ lbs. (pounds per ton) = } 1.60 \text{ tons per cubic yard. For example: } 20 \text{ cubic yards decomposed granite} \times 1.60 \text{ equals } 32 \text{ Tons.}$
- Permeability rate is 1.08 inches per hour.