



800-871-5022

More information can be found at
www.HQ-Drill.com.

Recommended Drill Speeds

| DiamondSure Diamond Drill Bits Material Bit Size--> | Recommended Drill Speed (rpm) | | | | |
|---|-------------------------------|-----|-----|-----|-----|
| | 1/2" | 1" | 2" | 3" | 4" |
| Fiberglass | 1200 | 700 | 350 | 250 | 175 |
| Glass, Ceramic & China | 800 | 500 | 250 | 160 | 125 |
| Limestone & Marble Stone | 600 | 450 | 225 | 130 | 100 |
| Ceramic Wall Tile | 600 | 450 | 225 | 130 | 100 |
| Porcelain Wall Tile | 500 | 375 | 180 | 125 | 90 |
| Porcelain Floor Tile | 500 | 375 | 180 | 125 | 90 |
| Granite Stone | 400 | 300 | 150 | 100 | 75 |

(Not for use on Concrete or Masonry, or with Hammer Drills)

SPEED KILLS: Reduced drill speeds, low drill pressure and increased use of water lubrication will extend drill bit life considerably.

Since all materials vary in hardness and abrasiveness, it is impossible to determine exact drill speeds. Additionally, as discussed below, lubrication and drill pressure must also be considered when determining the proper drill speed. A faster drill speed or increased pressure may reduce the cutting time slightly, but it will also increase the friction significantly and heat up the bit, reducing the bit life considerably and increasing the risk of heat fractures and material breakage. If used properly, a diamond drill bit should never be more than warm when touched after use. If a drill bit develops yellow, brown, blue or black 'burn marks' around the tip, it is an indication of extreme heat and that the drill speed being used is too fast or the amount of pressure on the drill is too great.