

ZIPLEVEL PRO-2000 Application Note 901142

Easily determine material required for floor leveling repairs.

Floor leveling is typically accomplished by first presetting self adhesive plastic reference pins in a grid pattern on the floor. The pins are then clipped at a level reference plane typically ¼ inch or 6 mm above the highest large area on the floor using a ZIPLEVEL or Rotary Laser. High peaks of small area are sometimes ground down to an acceptable height. A leveling slurry is then poured over the floor to match the top of the clipped pins. The ZIPLEVEL Record Average Function can be used to eliminate the tedious tabulation and computation necessary to accurately estimate the amount of leveling material needed. It can be used either alone or in conjunction with pin clipping equipment.

INSTRUCTIONS:

1. Mount ZIPLEVEL on its Unipod or the vertically stationary part of pin trim equipment.
2. Determine the highest point on the floor that is not easily ground.
3. Zero ZIPLEVEL on a spacer at a height such as ¼" above the "high point" on the floor. This point is now the benchmark elevation for the zero reference plane.
4. Enter the Record Average function by pressing REC key for about 2 seconds. Set the display to read real time data with only the REC indicator showing and without the AVG, MIN or MAX indicators showing on the display. Press the REC key momentarily to sequence through the four displays while in the REC function if necessary.
5. When at each peg momentarily press the HOLD key to record that elevation. There is no practical limit (about 16,000) to the number of elevations that you can average.
6. If used with pin trimming equipment then set the cutter scale to match the value shown on the ZIPLEVEL display and trim.
7. Periodically check the display at the benchmark and re-zero if necessary. **DONOT** press the REC key for two seconds to exit the function while measuring to avoid loss of recorded data.
8. After taking all measurements, momentarily press the REC key to sequence through the AVG, MIN and MAX of your measurements. Read the average depth below the Benchmark (AVG) in units of Feet or Meters. Press and hold down the SCALE key to change scales if necessary.
9. Material Required, $FT^3 = (\text{Floor Area, } FT^2) \times (\text{Average Depth, } FT)$ or

Material Required, $M^3 = (\text{Floor Area, } M^2) \times (\text{Average Depth, } M)$.

Example: Floor Area = 1,000 FT^2
 Average Depth = 1.2" or 0.10 FT
 Material Required = 1000 $FT^2 \times 0.10 FT = 100 FT^3$