

## Instructions for Use of Durham Geo Air Indicator

Fill brass cup with cement mortar paste excluding particles larger than Number 10 Mesh (US Standard Sieve). Do not wet the mesh. Use a narrow blade to pick up mortar. Rod mortar paste into the cup to compact the mortar. Strike off the excess mortar level with the top of the cup.

Hold finger over the small stem opening and fill the large end of the glass tube with isopropyl alcohol to the etched line on the glass. Insert the stopper in the tube, invert the indicator and adjust the liquid level to the uppermost line of the stem making certain that the stopper is firmly inserted and all air bubbles are removed. If desired, the alcohol may be inserted in the small opening of the stem with a syringe or dropper after the stopper has been inserted.

With the indicator in a vertical position, carefully remove your finger from the opening and count the number of spaces from the top line to the new liquid level. Count only the major divisions. The intermediate graduated divisions can be used to estimate a fraction of a percent. If the mix has 15 cubic feet of mortar, the number will directly represent the percentage of entrained air in a cubic yard of concrete. For more than less than 15 cubic feet of mortar, refer to the table below.

When ready to empty the instrument, care should be exercised to invert the glass to flush particles of sand from between the glass tube and the brass cup to avoid jamming the cup when removing the stopper.

Wash and clean the assembly immediately after use with clean water.

### Conversion Table

For the following mortar contents per cubic yard, multiply the stem reading (major division) by the following constants:

10 cu. Ft. x 0.67	14 cu. Ft. x 0.93	18 cu. Ft. x 1.20	22 cu. Ft. x 1.46	26 cu. Ft. x 1.72
11 cu. Ft. x 0.73	15 cu. Ft. x 1.00	19 cu. Ft. x 1.26	23 cu. Ft. x 1.52	27 cu. Ft. x 1.78
12 cu. Ft. x 0.80	16 cu. Ft. x 1.07	20 cu. Ft. x 1.33	24 cu. Ft. x 1.59	
13 cu. Ft. x 0.86	17 cu. Ft. x 1.13	21 cu. Ft. x 1.39	25 cu. Ft. x 1.66	

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