EPOXY DOWEL/REBAR INSTALLATION

GENERAL NOTES


1. DRILL HOLE TO REQUIRED DEPTH. GENERALLY 1/16-INCH LARGER IN DIAMETER THAN THE DIAMETER OF THE DOWEL, HOWEVER FOLLOW THE MANUFACTURER’S REQUIREMENTS FOR HOLE SIZE.

2. CONCRETE SHALL BE A MINIMUM OF 21 DAYS OLD PRIOR TO INSTALLATION UNLESS SPECIFICALLY STATED OTHERWISE BY THE MANUFACTURER.

3. HAVE EXTRA DRILL BITS AVAILABLE AS THEY DULL QUICKLY IF THEY ENCOUNTER REBAR OR VERY HARD AGGREGATE.

4. CLEAN HOLE SEVERAL TIMES WITH A BRUSH OF APPROPRIATE DIAMETER AND COMPRESSED AIR. IT GENERALLY TAKES ABOUT 3 REPETITIONS TO REMOVE ALL DUST FROM THE HOLE. AN EXTENSION FOR THE AIR NOZZLE MAY BE NEEDED TO REACH THE BACK OF THE HOLE.

5. INSERT 2-PART EPOXY ADHESIVE PACK INTO APPROPRIATE DISPENSER.

6. INSTALL MIXER NOZZLE TO 2-PART EPOXY ADHESIVE. EXTRA NOZZLES ARE ADVISED SINCE THEY ARE UNUSABLE IF THE MATERIAL HARDENS IN THE NOZZLE.

7. DISCARD THE FIRST AMOUNT DISPENSED UNTIL THE MATERIAL IS WELL MIXED COMING OUT OF THE NOZZLE.

8. INJECT EPOXY ADHESIVE FROM THE BACK OF THE HOLE WITHOUT FORMING AIR VOIDS. SLOWLY WITHDRAW THE MIXER WITH EACH TRIGGER PULL. FILL HOLES APPROXIMATELY 2/3 FULL, OR AS REQUIRED TO ENSURE THAT THE ANNULAR GAP BETWEEN THE DOWEL AND THE CONCRETE IS COMPLETELY FILLED WITH EPOXY ADHESIVE ALONG THE ENTIRE DEPTH OF THE HOLE. AFTER INJECTION IS COMPLETE, DEPRESSURIZE THE DISPENSER TO PREVENT FURTHER DISCHARGE FROM THE MIXER.

9. INSERT CLEAN DOWEL/REBAR INTO HOLE. BE SURE THE DOWEL IS DRY AND FREE OF OIL AND OTHER CONTAMINANTS. TO EASE INSTALLATION, THE DOWELS MAY BE SLOWLY TWISTED AS THEY ARE INSERTED. AFTER INSTALLATION, THE ANNULAR GAP MUST BE COMPLETELY FILLED WITH EPOXY ADHESIVE.

10. OBSERVE THE MANUFACTURER’S GEL TIME, WHICH VARIES ACCORDING TO TEMPERATURE OF THE BASE MATERIAL. MINOR ADJUSTMENTS TO THE DOWEL/REBAR POSITION MAY BE PERFORMED DURING THE GEL TIME.

11. ONCE THE GEL TIME HAS ELAPSED, DO NOT DISTURB THE DOWEL UNTIL THE CURING TIME HAS ELAPSED. DOWELS SHALL BE FIRMLY SUPPORTED DURING THE CURING TIME.

12. APPLY TORQUE AFTER THE CURE TIME HAS PASSED AND THE FIXTURE TO BE ATTACHED HAS BEEN POSITIONED (IF BOLTING ON AN ITEM TO THE DOWEL).