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Safety Information Sheet

Concrete Vibrator

CAUTION !

NEVER operate equipment with covers, or guards removed. Keep **fingers, hands, hair** and **clothing** away from all moving parts to prevent injury.

ALWAYS wear approved eye and hearing protection.

ALWAYS place the ON/OFF switch in the OFF position when the Vibrator Motor is not in use.

OPERATION :

1. Hold vibrator head above concrete pour when starting drive motor. This will prevent the vibrator head from bouncing on hard surfaces which could damage the bearings.
2. Keep flexshaft straight as possible when operating. Sharp bends increase the load on the core and drive motor, which will result in early core failure and possible damage to the drive motor.
3. Completely immerse the vibrator head quickly into the concrete mix at a vertical rate of about one foot per second (0.3 meters/second). Vibrate concrete for about 5 to 15 seconds for wet mixes. For stiff mixes vibrate 2-3 minutes.
4. Stop vibration of concrete mix when concrete has a level, glossy surface and there are no breaking air bubbles.
5. Slowly lift the head out of the mix using an up and down movement. This slight up and down movement will close the hole formed by the vibrator.
6. When lifting the head out of the concrete, withdraw slowly at a rate of about 3 sec./ft. Using this technique will avoid the re-trapping of air.
7. When near the top of the mix, withdraw the vibrator quickly.
8. Re-insert vibrator into mix according to the "area of influence" See Figure 6. Establish a symmetrical overlapping pattern for inserting and removing the vibrator head.
9. If concrete is poured in layers, allow vibrator to pass within 3 to 6 inches (76 to 152 mm.) into next layer to ensure the knitting of the two layers. The complete bonding of layers will prevent "lift lines" when forms are removed.

DO NOT use vibrator to move concrete laterally. This will cause segregation of the concrete. Use a shovel or similar device to spread the concrete.

The vibrator head is cooled by the concrete. Operation of the vibrator head in air longer than 2 minutes at a time will cause overheating of the bearings which will result in premature head failure.

If the shaft begins to helix (buckle) excessively during operation, stop and investigate. This is an indication of an overload condition.