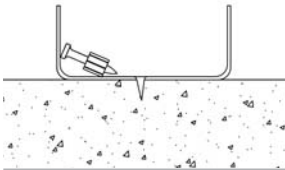


## CONCRETE SYMPTOM

### FASTENER DOES NOT HOLD IN BASE MATERIAL OR BASE MATERIAL SPALLS



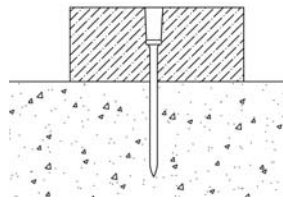
#### CAUSE

- High strength concrete
- Hard or large aggregate in concrete

#### ACTION

- Use shorter fastener
- Use PowerPoint pin
- Use load with a different power level

### FASTENER PENETRATES TOO DEEP



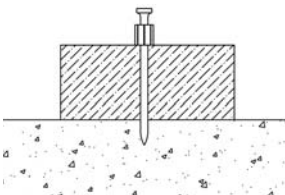
#### CAUSE

- Fastener too short for application
- Tool power level too high

#### ACTION

- Use longer fastener
- Use a lighter powder load

### FASTENER DOES NOT PENETRATE DEEP ENOUGH



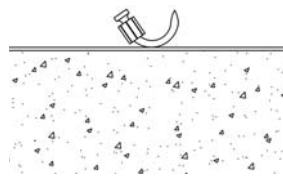
#### CAUSE

- Fastener too long
- Tool power level too low

#### ACTION

- Use a shorter fastener
- Use a stronger powder load

### FASTENER BENDS



#### CAUSE

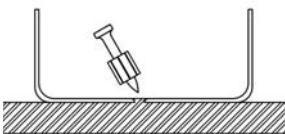
- Fastener hit large aggregate on entry
- Concrete too hard
- Fastener hit rebar just under the surface

#### ACTION

- Use shorter fastener
- Use PowerPoint pin
- Make sure tool is perpendicular to the work surface
- Move over 3 inches, try to fasten again

## STEEL SYMPTOM

### FASTENER DOES NOT PENETRATE THE SURFACE



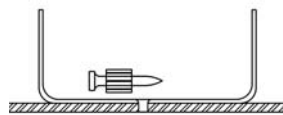
#### CAUSE

- Driving power too low
- Material may be too hard for forced entry fastener

#### ACTION

- Increase powder load level
- Use PowerPoint pin

### FASTENER DOES NOT HOLD IN BASE MATERIAL



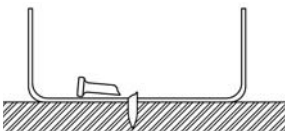
#### CAUSE

- Steel base material is too thin

#### ACTION

- Use gas system tools with smaller Shank pin or Tek pin

### FASTENER BREAKS OR BENDS



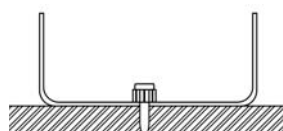
#### CAUSE

- Driving power is too low
- Fastener is too long
- Material may be too hard for forced entry fastener

#### ACTION

- Increase powder load level
- Reduce fastener length

### FASTENER DOES NOT FULLY PENETRATE STEEL



#### CAUSE

- Driving power too low
- Steel base material too thick
- Application limit may have been reached

#### ACTION

- Increase powder load level
- Use PowerPoint pin

Contact Technical Service at 800-816-6645