

# Adhesive Competitive Matrix



| APPLICATION                 | A7+ | C6+ | HY-70 | HY-200 (A/R) | RE-500V3 | ET-HP | AT-XP       | SET-XP | AC100+ Gold | PURE 110+ | PURE 50+ |
|-----------------------------|-----|-----|-------|--------------|----------|-------|-------------|--------|-------------|-----------|----------|
| Uncracked concrete          | ●   | ●   |       | ●            | ●        | ●     | IAPMO       | ●      | ●           | ●         | ●        |
| Cracked concrete            | ●   | ●   |       | ●            | ●        | ●     | IAPMO       | ●      | ●           | ●         | ●        |
| Seismic Zones               | A-F | A-F |       | A-F          | A-F      | A-F   | A-F (IAPMO) | A-F    | A-F         | A-F       | A-F      |
| Grout filled block          | ●   | ●   | ●     | ●            |          | IAPMO | IAPMO       | IAPMO  | ●           | ○         |          |
| Hollow block                | ●   | ●   | ●     |              |          |       |             | IAPMO  | ●           | ○         |          |
| Unreinforced brick          | ○   | ○   | ●     |              |          | ●     |             |        | ●           |           |          |
| Oversized holes             | ○   | ●   |       |              | ●        |       |             |        |             | ●         |          |
| Cored holes                 | ○   | ●   |       | ○            | ●        |       |             |        |             | ●         |          |
| Structural Rebar (IBC Comp) |     | ●   |       |              | ●        |       |             |        |             | ●         |          |
| Hollow Drill Bit            | ○   | ○   |       |              | ●        |       | ●           | ●      | ●           | ●         |          |
| Saturated(per ICC-ES)       | ●   | ●   | ○     | ●            | ●        | ●     | IAPMO       | ●      | ●           | ●         | ●        |
| Water-filled(per ICC-ES)    | ●   | ●   |       |              | ●        |       |             |        | ○           | ●         |          |
| Submerged(per ICC-ES)       | ●   | ●   |       |              | ●        |       |             |        |             |           |          |
| Overhead                    | ●   | ●   |       | ●            | ●        | ●     | ●           | ●      | ●           | ○         |          |

○ = May be applicable in limited designs

| OTHER                                 | A7+  | C6+  | HY-70                                  | HY-200 (A/R)  | RE-500V3  | ET-HP                                       | AT-XP   | SET-XP  | AC100+ Gold                         | PURE 110+                           | PURE 50+                            |
|---------------------------------------|--|--|--|---|---|---|---|---|-------------------------------------|-------------------------------------|-------------------------------------|
| Volume (fl oz)                        | 5, 9.5, 28   | 15 & 30  | 11.1 & 16.9                            | 11.1 & 16.9   | 11, 16.9, 47.3                                      | 25, 56                                      | 9.6, 12.5, 30                                       | 8.5, 22, 56   | 5, 8, 10, 12.5, 30                  | 9, 13, 20, 21                       | 9, 21, 51                           |
| Size(s) Compatible with Std Caulk Gun | 9.5  | -  | -                                      | -   | -   | -   | 9.4   | 8.5   | 5, 10                               | -                                   | 9                                   |
| Installation Temperature Range        | 14-110°F   | 40-110°F   | 23-104°F                               | 14-104°F  | 23-104°F  | 50-110°F                                    | 14-100°F  | 50-110°F  | 14-104°F                            | 41-104°F                            | 50-104°F                            |
| Cure Time @ 70° F                     | 45 min   | 6.5 hr   | 30min                                  | A - 30 min<br>R - 60 min                            | 6.5 hr  | 24 hr                                       | 60 min  | 24 hr   | 45 min                              | 10 hr                               | 8 hr                                |
| Gel Time @ 70° F                      | 5 min  | 16 min   | <4 min                                 | A - 4 min<br>R - 15 min                             | 25 min  | 20 min                                      | <4 min  | 45 min  | 6 min                               | 30 min                              | 25 min                              |
| Shelf Life                            | 24 months  | 24 months  | 12 months                              | 9 months  | 9 months  | 24 months                                   | 12 months   | 24 months   | 18 months                           | 24 months                           | 24 months                           |
| Min. Edge Distance (#4 rebar)         | 1-1/2"   | 1-1/2"   | 4"                                     | 5d <sub>s</sub>                                     | 5d <sub>s</sub>                                     | 1-3/4"                                      | 1-3/4"  | 1-3/4"  | 1-3/4"                              | 1-3/4"                              | 5D <sub>s</sub>                     |
| Min. Spacing (#4 rebar)               | 1-1/2"   | 1-1/2"   | 4"                                     | 2-1/2"  | 2-1/2"  | 3"  | 3"  | 3"  | 5d <sub>s</sub>                     | 2-1/2"                              | 2-1/2"                              |
| Made in                               | France   | USA*   | Germany                                | Germany   | Germany   | USA   | USA   | USA   | Germany                             | Germany                             | Germany                             |
| Threaded Rod                          | 3/8" - 1-1/2"  | 3/8" - 1-1/4"  | 3/8"-3/4"                              | 3/8" - 1-1/4"                                       | 3/8" - 1-1/4"                                       | 3/8" - 1-1/4"                               | 3/8" - 1-1/4"                                       | 3/8" - 1-1/4"                                       | 3/8" - 1-1/4"                       | 1/2" - 1-1/4"                       | 3/8" - 1-1/4"                       |
| Rebar                                 | #3 - #11   | #3 - #10   | #3 - #6                                | #3 - #10  | #3 - #10  | #3 - #10                                    | #3 - #10  | #3 - #10  | #3 - #10                            | #4 - #10                            | #3 - #10                            |
| Approvals/Listings                    | •2015, 2012, 2009, 2006 IBC<br>•NSF/ANSI<br>•FL<br>•COLA<br>•DOT | •2015, 2012, 2009, 2006 IBC<br>•NSF/ANSI<br>•FL<br>•COLA<br>•DOT | •2012, 2009, 2006 IBC<br>•NSF<br>•COLA | •2015, 2012, 2009, 2006 IBC<br>•NSF<br>•COLA<br>•FL | •2015, 2012, 2009, 2006 IBC<br>•NSF<br>•FL<br>•COLA | •2015, 2012, 2009, 2006 IBC<br>•FL<br>•COLA | •2015, 2012, 2009, 2006 IBC<br>•NSF<br>•FL<br>•COLA | •2015, 2012, 2009, 2006 IBC<br>•NSF<br>•FL<br>•COLA | •2015, 2012, 2009, 2006 IBC<br>•NSF | •2015, 2012, 2009, 2006 IBC<br>•NSF | •2015, 2012, 2009, 2006 IBC<br>•NSF |

\* Made in USA with U.S. and Global Materials

## TROUBLESHOOTING TIPS

**Do not use adhesive anchors with screw anchors or wedge anchors.**







Some people mistakenly think that if you use an adhesive anchor with a wedge anchor or a screw anchor, it will result in higher pull out strength. That is not true. Adhesive anchors are designed to be used with threaded rod and rebar. Using anything other than threaded rod or rebar will result in lower than published pull out values.

**Make sure the adhesive has NOT hardened in the nozzle before trying to dispense.**

Once adhesives are mixed, they have a gel time or working time after which the adhesive will harden and be very hard to pump. Sometimes people are using an adhesive, set it down for a period of time longer than the working time, and then come back and try to dispense the adhesive again. If the adhesive has hardened and you do not change the nozzle, the dispensing tool or the cartridge are likely to break. If you have let the partially used adhesive sit for longer than the working time, replace the nozzle before trying to dispense again.

**Store and dispense adhesive properly to avoid cartridge leakage.**

If not stored or dispensed properly, it is possible for adhesive anchors to leak out of the back or the front. Always check the cartridge label or SDS for proper storage conditions. As mentioned above, always make sure the adhesive is not hardened in the nozzle before dispensing. Always make sure you are using protective gloves and eyewear before working with adhesive anchors. If you come into contact with the material, refer to the SDS for first aid and other instructions.

|            |                         |                            |  |  |
|------------|--|---|--|---|
| Quick Cure | <br>A7P-28 and A7P-10 | HY200A (Accelerated)<br>HY200R (Regular)<br>HY100<br>HY70 (Masonry)<br>HIT ICE (Cold Weather)<br>HY-10 PLUS | AC 200+<br>AC 100+ GOLD<br>AC50 SILVER   | AT-XP<br>AT   |
| Slow Cure  | <br>C6P-15 AND CP6-30 | RE500V3   | PURE110+<br>PE-1000+   | SET-XP  |