



Technical Bulletin: Hycrete Endure CP Equivalent Dosage Rates to Calcium Nitrite Based Corrosion Inhibitors

Hycrete Endure CP meets all the requirements for corrosion inhibiting admixtures according to ASTM C1582.

Hycrete Endure CP may be substituted for Calcium Nitrite (CNI) at an equivalent dosage of 25% of the specified CNI gal/yd³ (Hycrete = 0.25 × CNI gal/yd³) for durability in critical elements.

Use: For a specified or recommended CNI dosage tied to anticipated chloride exposure (lbs/yd³), substitute Hycrete Endure CP at the recommended rate.

| Anticipated Chloride Loading Level (lbs/yd ³) | CNI Recommended Dosage (gal/yd ³) | Hycrete Endure CP — Recommended (gal/yd ³) |
|---|---|--|
| 6.0 | 2.0 | 0.500 |
| 8.0 | 2.5 | 0.625 |
| 9.9 | 3.0 | 0.750 |
| 11.5 | 3.5 | 0.875 |
| 13.0 | 4.0 | 1.000 |
| 14.1 | 4.5 | 1.125 |
| 15.0 | 5.0 | 1.250 |
| 15.6 | 5.5 | 1.375 |
| 16.0 | 6.0 | 1.500 |

Hycrete recommends a baseline concrete mix design that meets ACI guidance for durable concrete in corrosive environments—including appropriate exposure class selection, limits on water-to-cementitious materials ratio, minimum cementitious content, use of SCMs, specified concrete cover, air entrainment where applicable, and a documented curing plan. For project-specific dosage guidance, contact Hycrete Technical Services with project exposure conditions, the proposed mix design, and verification test results.