



- Lower ecotoxicity
- No dioxins, furans or heavy metals
- Extremely effective against termites

## Defend Every Pole from the Ground Up

**UltraPole®NXT with DCOI delivers 100% termite mortality in the no choice test (AWPA E1 Termite Test protocol) even at the lowest retention levels tested ( $\leq 0.05$  pcf).**

### The Termite Challenge

Many states have termites and many southern states also have the Formosan termite (*Coptotermes formosanus*) nicknamed the super-termite, which is one of the most aggressive and destructive termite species in the world. For utility poles, these pests can compromise structural integrity and service reliability, driving up replacement costs and threatening safety.

### Tested. Proven. Trusted.

Laboratory testing by Mississippi State University evaluated DCOI-treated southern yellow pine sapwood against *Reticulitermes flavipes* and *Coptotermes formosanus*. Using AWPA E1 termite protocols, the tests included both choice (termites can select treated or untreated wood) and no-choice (only treated wood available) scenarios.

*Hawaii is home to one of the most destructive termites species in the world. DCOI treated poles stand tall against this threat. ▼*





## Proven Performance in Field and Laboratory Testing

- **DCOI's 28 years of performance in AWPA E7 stake tests** in termite infested test sites in subtropical Mississippi.
  - Test conducted in Dorman Lake, MS and Saucier, MS
- **No-Choice Tests — *Reticulitermes flavipes* (Eastern Subterranean Termite):**  
Untreated sapwood experienced severe damage. DCOI-treated samples had very low weight loss and 100% termite mortality, showing effectiveness at < 0.05 pcf retention.
- **Choice Tests — *Reticulitermes flavipes* (Eastern Subterranean Termite):**  
Termites avoided DCOI-treated southern yellow pine sapwood, attacking untreated controls instead. Controls suffered high weight loss; treated wood remained virtually undamaged.
- **No-Choice Tests — *Coptotermes formosanus* (Formosan Termite):**  
Untreated sapwood experienced severe damage. DCOI-treated samples had very low weight loss and 100% termite mortality, showing effectiveness at < 0.05 pcf retention.
- **Choice Tests — *Coptotermes formosanus* (Formosan Termite):**  
Termites were repelled from DCOI-treated southern yellow pine sapwood, choosing untreated samples which had significant damage.
- **Overall Data:**
  - In the no choice test, there was 100% termite mortality.
  - In the choice test there was insignificant weight loss.

## Summary Conclusion

AWPA E1 test results confirm that UltraPole®NXT with DCOI is both a highly effective termiticide and a strong repellent, even at the lowest tested retentions. In severe termite environments, this means longer-lasting utility poles, fewer replacements, and reduced maintenance costs. This low threshold of 0.05pcf is less than 1/3 of the southern yellow pine and less than 1/4 of the Douglas fir AWPA standardized retention in UC4C for poles treated with DCOI.

## Why Utilities Choose UltraPole® with DCOI

- Kills and repels all tested termite species.
- Proven performance in laboratory tests, field tests and real-world pole installations.
- Wood preservers testify that DCOI penetrates better than Penta.
- DCOI is an AWPA-standardized preservative for utility poles as well as other products.
- Environmentally responsible alternative to many other materials and preservatives.

Field stake test in Hawaii.

ULTRA<sup>®</sup>Pole<sup>®</sup>NXT  
with DCOI



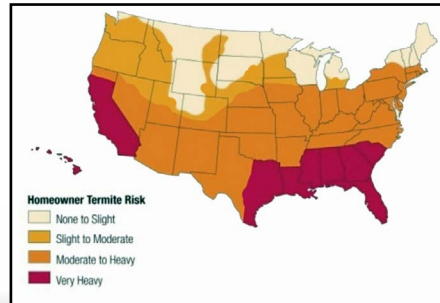
Eastern Subterranean Termite (top) and Formosan Termite (bottom)



Treated stakes are almost untouched.  
The untreated control stakes were destroyed.



Wood treated with DCOI (top) shows little to no weight loss.  
Untreated control wood (bottom) shows severe weight loss.



US Termite Distribution Map

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Viance, LLC | 8001 IBM Dr, Charlotte, NC 28262 | 800.421.8661 | treatedwood.com