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## Thermbond® Patented Refractory System

Ted Hagberg  
Thermbond Refractory Products

Sweeny Complex (ConocoPhillips/ChevronPhillips) has successfully used Thermbond Formula 6B for ethylene cracking furnace burner tile for over 15 years. A great improvement in tile life was a very positive result and Formula 6B is still being used today by ConocoPhillips and ChevronPhillips for burner tile. The use of this material was expanded to include a severe thermal shock application in our Orthoflow FCCU, the regenerator flue gas line quench water injection nozzles.

The successful use of Formula 6B gathered interest in another Thermbond product, Formula 12L, for application in our cracking risers at both Orthoflow and UOP FCCU's. We have seen very good results with 12L since 2003. Other applications for 12L have been flue gas line downstream of our quench water sprays, tertiary separator inlet plenum, and tertiary separator cyclones. All applications were rammed in place and saw only startup dry out; heat curing was not required prior to startup. We have not used any gunning grade products, yet, however. Our experience has been limited to casting and ramming Thermbond grades.

We appreciate all of the guidance and technical help you have given us over the years to help us improve performance in our facility. We plan to include Thermbond products on our refractory material AML for a long time to come.



Jim Montague

Engineering Specialist  
Stationary Equipment  
Sweeny Refinery

ConocoPhillips Network Lead  
FCCU Mechanical Task Group

### INDUSTRIES SERVED

- ☞ Refining
- ☞ Non-Ferrous
- ☞ Zinc
- ☞ Precast Manufacturing
- ☞ Rock Products
- ☞ Die-Casting
- ☞ Boiler Manufacturing
- ☞ Mineral Processing
- ☞ Chemical
- ☞ Power Generation
- ☞ Primary Aluminum
- ☞ O.E.M. Furnace Builders
- ☞ Steel
- ☞ Incineration
- ☞ Secondary Aluminum
- ☞ Cremation

