



QUICKVIEW

- New facility in need of 11,000 yards of new pavement
- Pavement needed to withstand heavy-duty tractor trailer traffic
- Roller Compacted Concrete was used to meet extreme demands
- Project required a quick turnaround



ROLLER COMPACTED CONCRETE ANSWERS BAKER HUGHES' NEEDS FOR QUICK PLACEMENT, HEAVY LOADS

THE SITUATION

Baker Hughes, one of the world's largest oilfield services companies, was in need of more than 11,000 yards of pavement at their new facility that would withstand heavy-duty tractor trailer traffic on a regular basis. Located at the Lamar Township Business Park in Mill Hall, Pa., the facility will support gas exploration in the Marcellus Shale. All factors pointed to concrete as the answer. However, Baker Hughes was looking to move fast and needed something that would allow for a quick turnaround.

THE SOLUTION

With the help of Centre Concrete (producer), Glenn O. Hawbaker Inc. (installation) and A. Martini & Co. (contractor), roller compacted concrete (RCC) was selected because it had all the advantages of concrete, but also offered a speedier placement method.

"RCC was the only solution that really met the client's needs, and with these tough economic times it's quickly becoming an attractive option," said Rory McCoy, Centre Concrete. "It was a great team effort by everyone involved."

RCC is strong and durable like concrete but is put down like asphalt. It's placed with conventional or high-density paving equipment and then is finished using double-drum rollers. RCC has a similar ingredient make-up as conventional concrete: water, cement and aggregates such as gravel and crushed stone, but it's a drier mix that helps it be compacted by the rollers. RCC is constructed without the



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joints, forms and dowels or steel reinforcing typically needed with conventional concrete, allowing for a faster placement time.

Because RCC provides efficient placement, similar to asphalt, the project was completed in 2-3 weeks and was able to be placed at night to help meet the fast-approaching deadline.

Centre Concrete has been working with RCC for the past 10-12 years. “RCC is definitely becoming more popular. We are starting to see more interest from our customers as they are hearing and learning more about it,” said McCoy. “I’ve quoted more RCC projects this year than ever before.”

“Time is always a critical factor, and very often that can be why concrete isn’t chosen for a project. RCC now provides a second option to asphalt; it provides the ability to pave an area with the strength of concrete, but the speed of asphalt.”

Thanks to RCC’s durability, ease of application and lower cost, it’s becoming the preferred solution for industrial and commercial projects. Ports, intermodal, and military facilities; parking, storage, and staging areas; streets, intersections, and low-speed roads are all perfect candidates for the technology. In addition, low cost continues to draw engineers, owners, and construction managers to RCC.



LEARN MORE
ABOUT RCC



For more information on roller compacted concrete, contact PACA staff members Ken Crank at ken@pacaweb.org or Bruce Cody at bruce@pacaweb.org.