ARIDUS®
RAPID DRYING CONCRETE

Aridus general FAQs

ARIDUS GENERAL FAQs

- **What is Aridus?**
  - Aridus is a self-desiccating concrete mixture made up of ASTM approved materials that dries to 80% relative humidity and 5# MVER in less than 45 days
- **How is Aridus Concrete different than regular concrete?**
  - Aridus Concrete is a low w/c ratio high performance concrete. As such, it will be a little stickier as it is a chemical slump as opposed to a water slump.
- **How is Aridus Concrete Priced?**
  - Aridus concrete is priced the same as the specified concrete with a separate line item for Aridus at $4.00 psf up to 6" depth and $0.50 per inch after that. In other words, if the specification calls for 4000 psi concrete and the normal price of 4000 psi concrete is $100.00 pcy, the concrete would be priced at $100 pcy and Aridus would be priced at $4.00 psf.
- **Why is Aridus priced this way?**
  - All the competitive products are sold on a square foot basis and the flooring industry (and the contracting industry) understand price per square foot.
- **What are the primary markets for Aridus Concrete?**
  - The markets that have experienced the most "pain" and experienced the most issues with vapor emission flooring problems are hospitals, schools and high tech buildings. However, anytime that the flooring cover requires a certain "dryness" of the concrete prior to installation of the floor is an opportunity for Aridus.
- **Does Aridus Concrete work in light weight concrete?**
  - At this time, there is not a solution for light weight concrete. There is just too much moisture in the expanded light weight aggregates. However, we are working with other solutions and expect to have a Light Weight Aridus by the second quarter of 2012.
- **Who designs the Aridus Concrete mixture?**
  - Materials will be shipped to the USC Technologies laboratory in San Jose, CA and USC Tech will design and approve the concrete mix.
- **What if it is going to rain on the pour day?**
  - Aridus water content is critical. Cancel if moderate to heavy rain is expected during placement. (Rain would be a problem for Aridus flat work if it would be a problem for normal concrete flat work.
- **What if it rains on the slab after the pour and before flooring installation?**
  - Aridus Concrete will reach the required slab dry condition in approximately 16 days after a rain.
- **Is a vapor barrier required under a slab-on-grade?**
  - 15 mil is recommended. The Vapor Barrier has to be continuous with no breaks and no punctures so ground water will not be in play. Overlapping and taping edges are recommended.

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- **Is sand allowed over the vapor barrier?**
  - NO
- **Can Aridus Concrete be pumped?**
  - Yes. If an Aridus primer is used it can be pumped onto the slab. If standard primer is used it needs to diverted from slab. A minimum of a 4" line is required. Aridus has been pumped over 300' and at a rate of 85 cy/hr
- **What if the slump is not correct at the job site?**
  - Only the approved technician is allowed to adjust the slump and the slump can only be adjusted with chemicals
- **Can Aridus Concrete be adjusted for the ambient temperature conditions?**
  - Yes, Aridus Concrete set time can be adjusted with retarders or accelerators.
- **What concrete cure is recommended?**
  - Aridus Concrete should be cured with a plastic covering for 3 days.
- **How do I batch Aridus, is there something special I have to do?**
  - Aridus is a low w/c concrete, so the procedures you have in place for that type of concrete are needed for Aridus.
- **How do I add the CDA 710?**
  - This depends on what type of plant you are using (central mix vs. dry mix) and how your plant is con figured. If Aridus is being batched at a central mix plant, it is best if the CDA 710 is able to be added so that it is mixed in the central mixer with the rest of the materials. How it is added highly depends on the plant configuration, and should be done in the safest manner possible. If there is no safe way to add CDA 710 in a central mixer, or if Aridus is being batched from a dry plant, CDA 710 can be added to the truck before the load or after, with the latter being the preferred method.
- **How do we handle a vapor barrier around a footing?**
  - The best option is to place the vapor barrier entirely around the footing or grade beam.

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