

Application Profile

- Project:** BOS Dairy Barn, Rennselear / DeMotte, Indiana
Cow's Choice™ Soft Barn Flooring and Beds
- Polyurea Applicator:** Lauren AgriSystems, New Philadelphia, Ohio
Inspection / Project Monitoring by Primeaux Associates LLC
- Polyurea System Applied:** VersaFlex NS45, FSS 45DC, and FSS 50DM
VersaFlex, Incorporated, Kansas City, MO
- Substrate / Area:** Fiber-reinforced Concrete Flooring, approx 5,000 ft² / section
- Date:** April, 2004

The BOS Dairy facility is a new state-of-the-art dairy barn facility. In order to provide for increase milk production, as well as reduction in injury and disease issues, Lauren AgriSystems developed a flooring / bedding system to provide for additional comfort for the dairy cows. This system, based upon the polyurea technology, provides for a seamless flooring system that is extremely durable impermeable to bacteria and molds and easy to maintain. Installation of this flooring system has proved increased milk production, increase reproduction rate in the cows, and reduced injury and disease issues with the cows due to the porous nature of existing concrete floors. Application in feed areas also has shown for complete consumption of the feed off the existing concrete floor. It feels better on the cow's tongue.



Prior to installation of the Cow's Choice system, the new concrete placement was cleaned / prepared as per SSPC-SP 13. This involved the use of a BLASTRAC unit, providing for a CSP 3 to CSP 4 profile. The area was then vacuumed and a proprietary polyurethane primer system from Lauren was used. The primer was applied using rollers and squeegees, at a rate of about 10 mils wet (0.25 mm).

The VersaFlex NS45 system was then applied at about 20 mils (0.5 mm). This is a soft, slow set aromatic polyurea system, used to adhere the 3/8-inch (9.5 mm) ground rubber mats, used for the soft feel. Next, approximately 80 mils (2.0 mm) of the VersaFlex FSS 45DC aromatic polyurea system was applied to the installed rubber mats. This provided for the continuous elastomer membrane with excellent adhesion to the rubber mats. This was then followed by installation of the VersaFlex FSS 50DM aromatic polyurea system for the texture / stipple finish to provide for a non-slip finish.



Primeaux Associates LLC

161 Forest Drive - Elgin, Texas 78621
1-512-285-4870 FAX 1-512-281-4933 polyurea@flash.net