

**SAVE SLATS & PADS
FROM WEAR!**

The **ARMOR-ROCK SYSTEM** from Vanberg Specialized Coatings provides an effective long-term solution.

WEAR...



ARMOR-ROCK ON SLATS



ARMOR-ROCK ON PADS



THE PROBLEM

Following several years of VSC investigations into concrete deterioration, requested by producers, not a single finishing site was found not to be showing signs of wear on slats and pads around feeders. Although the wear was variable, the most significant wear was observed around wet/dry feeders. It appears that compounds that are known to be corrosive (high levels of salts, sulfates and acids) to concrete are formed. Combinations of water types, feed types and feed additives when combined with urine contribute to the degree and speed of deterioration. Over the years several methods have been attempted to stop or correct this wear problem.



VANBERG SPECIALIZED COATINGS

CONCRETE REPAIR & PROTECTION PRODUCTS

"Products and Systems for the Coatings Industry Since 1989"

P.O. Box 19414, Lenexa, KS 66285-9414 (913) 599-5939 FAX: (913) 599-5949
Toll Free: 1-800-874-0631 E-mail: vsc@vanbergcoatings.com Web: www.vanbergcoatings.com

ATTEMPTED SOLUTIONS

CONCRETE PADS

These were one of the earliest efforts to protect slats. And indeed they did just that. But only over the slats they covered. It was observed that soon the pad and the slat area immediately around (about a 1 ½ ft. area) the pad suffered from erosion from the corrosive compounds. Producers became faced with an extended wear area to deal with. Common Portland-based mortars have been tried to make repairs but found to be very temporary (usually one turn or less).



MATS

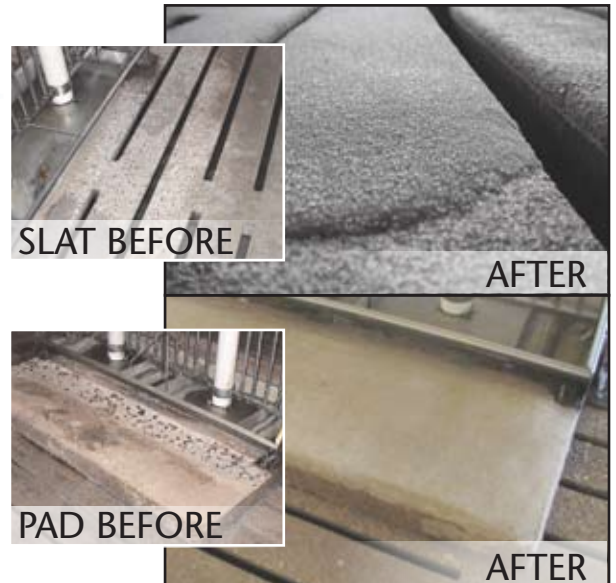
Mats have been used extensively to address the wear problems around the feeders since the early 1900's. Like pads, it was seen that the mats protect new slats immediately beneath the pads yet also displace corrosive compounds to the perimeter of the mat. This results in slat deterioration in an area of approximately 1 ½ ft. around the mat. Producers are now faced with restoring and protecting the area around the mat in addition to maintaining the mat. Producers also report difficulty with cleaning beneath the mat (especially if the mat is placed over eroded slats), keeping the mat anchored and slippery conditions that develop.



WORKING SOLUTION

ARMOR-ROCK 'A Working Solution'

The **ARMOR-ROCK SYSTEM** combines a unique epoxy formula with high strength and excellent chemical resistance with the high abrasion resistance of natural silica aggregates to form a tough-wearing and non-slip overlay for slats and pads. The epoxy is designed with the flexural and penetration properties needed for maximum bond. It is an ideal system for new or slightly eroded surfaces. As **ARMOR-ROCK** is placed only over the slats in affected areas around the feeders, slats drain properly and surrounding unprotected concrete is not attacked by corrosive compounds. The system is an effective long-term solution that can be installed at a cost comparable to or less than other options. It has been used by pork producers since 1990.



SEVERELY WORN CONCRETE SLATS & PADS

VIRTUALLY ANY SLAT OR PAD CAN BE RESTORED

In some cases (considering time and cost constraints) slats and pads are not able to be easily replaced. Using products and techniques developed by Vanberg Specialized Coatings, virtually any severely eroded area can be restored quickly and permanently. Even wear down to the re-rod or slats that have lost entire sections or slats with extreme cracking can be fixed. Typically **CON-KORITE** pure-cement mortar or **ARMOR-GROUT** epoxy mortar will restore and level severely eroded areas.

