

"THE ULTIMATE" SLAT PROTECTOR

FROM



VANBERG
SPECIALIZED COATINGS

EXISTING SLATS



TYPICAL WEAR



WEAR AROUND MATS



STATS RESTORED WITH ARMOR-ROCK

"NEW" SLATS



UNPROTECTED SLATS

THE BEST TIME
TO INSTALL
ARMOR-ROCK



STATS PROTECTED WITH ARMOR-ROCK

When all other attempts to save slats from corrosive elements have failed, **ARMOR-ROCK** is today's best solution!

A unique blend of VSC Epoxy Resin and VSC aggregates that provides an extremely tough wearing and chemical resistant overlay.

- Stops corrosion around feeders & waterers
- Stands up to pig traffic (all sizes)
- System fits anywhere the feeders are
- Works for slats, pads & floors
- Easier to clean than regular concrete
- Cost is similar to other options
- No unsanitary residue beneath the overlay
- In use by producers since 1999

**SAVE SLATS & PADS
FROM WEAR!**

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

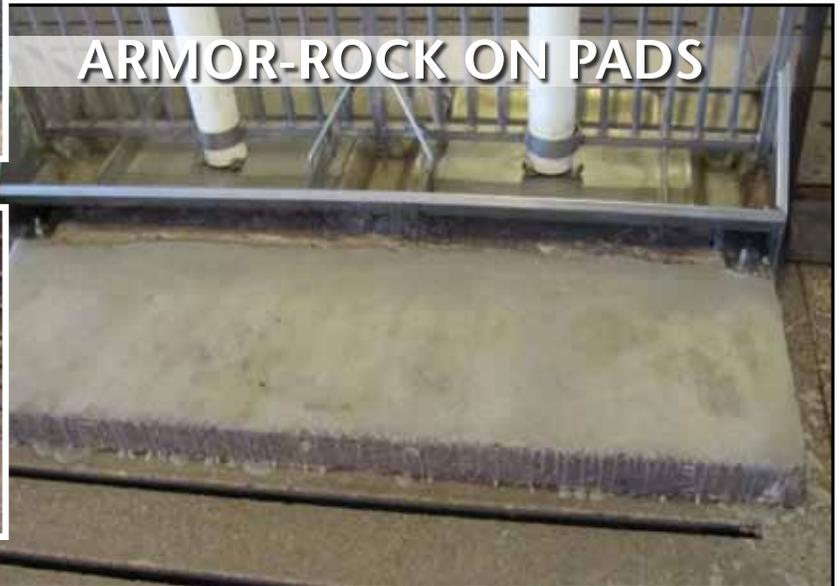
WEAR...



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.

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

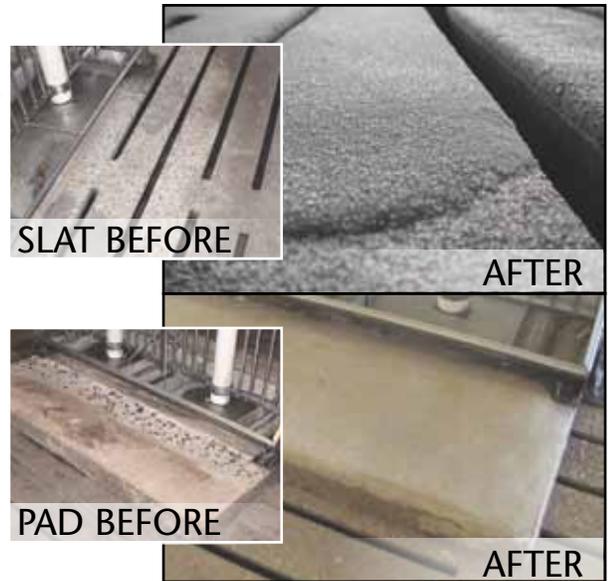
Mats have been used extensively to address the wear problems around the feeders since the early 1900's. Like pads, it was seen that the mats protect new slats immediately beneath the pads yet also displace corrosive compounds to the perimeter of the mat. This results in slat deterioration in an area 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.



INSTALLATION MADE EASY

- ▶ Assure the best installation using a VSC professionally trained applicator.
- ▶ DIY installation using VSC detailed guidelines.

OUR PROCESS -

STEP 1



Prepare the surface using
**VSC CONCRETE
CLEAN & ETCH**

STEP 2



Mix components
together

STEP 3



Spread over slats with
VSC APPLICATOR

STEP 4



Apply **VSC MEDIUM**
surface aggregate

Our customers, from their experience, are expecting better than 10 years life expectancy. **And, with some maintenance, even longer!**

AVAILABILITY -

CONVENIENT KITS to REPAIR EXTREME WEAR

#KB0100 CON-KORITE MORTAR
Coverage: 25 sq. ft. @ 1/4"(.5 cu.ft.)

#AC133-AG ARMOR-GROUT MORTAR
Coverage: 18 sq. ft. @ 1/4"(.36 cu.ft.)

OVERLAY FOR NEW or REPAIRED SURFACES

#AC133-AR ARMOR-ROCK SYSTEM KIT
Coverage: 28 sq. ft. @ 3/16"

ARMOR-ROCK SYSTEM COMPONENTS

System consists of 1.5 Gallon ARMORCOAT EPOXY
+ 25 lbs. ADMIX + 25 lbs. VSC MEDIUM BROADCAST

ARMORCOAT 1300 EPOXY

#AC133 1.5 Gallon

#AC133-15 15 Gallon

ADMIX (combine 25 lbs. ADMIX to 1.5 gallon Epoxy)

#520B-25 25 lbs. ADMIX

SURFACE BROADCAST (25 lbs. PER 1.5 gallon batch)

#210-520B 50 lb. Bag VSC MEDIUM

PREPARATION -

VSC CONCRETE CLEAN & ETCH

Coverage: 150 sq. ft. per gallon

#VP-151-1 1 gallon (4/cs)

#VP151-5 5 gallon



MIXING & APPLICATION TOOLS

#TS46565 PROP for mixing epoxy liquids
#TSKM5825 PAIL MIXER for mixing epoxy and
ADMIX
#TSAR-6 ARMOR-ROCK APPLICATOR (6")