



Paving the way with a better concrete mix for all your agricultural needs in Southern Minnesota and Northern Iowa.

OWATONNA
CONCRETE PRODUCTS, LLC

www.owatonnaconcrete.com

RANDALL
eady Mix LLC

www.randallreadymix.com

A Concrete Solution for Agricultural Concrete.

AG-CRETE®, Owatonna Concrete Products, LLC and Randall Ready Mix, LLC's branded performance concrete was developed for all your agricultural applications. It is concrete with a purpose; to meet the durability, performance and economic challenges found on today's farms. We have continued to improve this respected product to deliver durability and performance at a value-oriented price.

Water, animal manure, fertilizers and fire are characteristics of the farm environment. AG-CRETE is engineered to resist the action of all four by incorporating pozzolans, fibers and a low water to cementitious materials. Its strength is well-suited to soil supported structures, the various loads requiring only a change in thickness.

Like any concrete, AG-CRETE will perform best if properly handled and cured. It is even available in a highly flowable T25SM. Your concrete salesman can help you with your selection, and with helpful pointers on doing the job yourself or retaining a contractor.

The durability, function and economy of concrete makes it an ideal building material for agricultural applications. With an easy to use chart (*see opposite page*) for determining the appropriate mix for any given application, Owatonna Concrete Products, LLC and Randall Ready Mix, LLC will help you order the most effective, efficient product for your next concrete project.

AG-CRETE mixes meet or exceed all specifications set forth in the Midwest Plan Service "Farm and Home Concrete Handbook" and the American Concrete Institute's Guidelines on Durable Concrete.



To order call the nearest location near you

OWATONNA CONCRETE PRODUCTS DISPATCH

FARIBAULT, MN

1221 Cannon Circle

WASECA, MN

210 5th Avenue SE

KENYON, MN

19 Langford Avenue

OWATONNA, MN

639 Riverside Avenue

ALBERT LEA READY MIX

75417 255th Street

507-451-5347 • 1-800-294-1543

RANDALL READY MIX DISPATCH

FOREST CITY, IA

1406 South 4th Street
641-585-1962

NORTHWOOD, IA

1343 Highway 105 West

LAKE MILLS, IA

609 W. Main Street

ST. ANSGAR, IA

4439 Indigo Avenue

MANLY, IA

1527 370th Street

641-324-1063 • 1-800-658-3081

* Additional water added to mixes will significantly reduce durability.

Placing, Finishing and Curing

Slabs on grade are the most common concrete use; drives, walks, feedlots, building and basement floors, etc. All need the same general construction procedures. The analysis below assumes a solid foundation, with a sub-grade reaction modulus of 200 psi per inch.

Sub grade Preparation & Design

- Compact & Uniform Subgrade -

Use a drainable aggregate and compact to a 4" thickness.

- Proper Thickness -

1/2 ton pickup or less.....	4"
Farm Machinery, manure spreader, loaders.....	5"
Frequent large trucks, grain wagons, manure tanks.....	8"

- Control Joints -

Cut concrete into square sections that are no more than 30 times larger than the thickness of the slab - 4" slab x 30 = 10' sections.

Concrete Placement-

- Only order an amount of AG-CRETE that can be placed within 90 minutes of batching.
- Do not add extra water on the job site-this weakens the concrete and promotes excessive shrinkage. Owatonna Concrete Products, LLC and Randall Ready Mix, LLC have a variety of products that can be added on the job to make concrete and easier to work with while not affecting the concrete strength and durability.
- Rod the concrete level.
- Bull float with a wood or magnesium float to fill in voids.
- Exterior concrete should be broomed to give a non-slip surface, while interior slabs should be troweled to give a dense, smooth surface. Do not begin any troweling until all bleed water has left the surface.



Curing-

During summer conditions, cure AG-CRETE with Cemstone's Cure-N-Seal, an acrylic membrane that retains a sufficient amount of moisture in the concrete to facilitate proper strength gain. During all placements in the fall, AG-CRETE must be covered with plastic, hay, or thermal blankets, to ensure the material achieves 4000psi before the first freeze.

Weather-

Special considerations for hot and cold weather must be made when working with concrete. Ask your Concrete Representative, or refer to the "Farm and Home Concrete Handbook" for detailed information.

Refer to this chart when ordering concrete for use in agricultural applications. Each mix is designed to be the most durable and economical mix for the indicated application.

TYPE OF APPLICATION	AG-CRETE® MIX NUMBER	SLUMP AT TRUCK DISCHARGE
<ul style="list-style-type: none"> • Above-ground bunker silos • Underground silos • Drives • Beams • Columns • Footings • Foundation walls • Gravity\retaining 	504	4" + - 1"
<ul style="list-style-type: none"> • Feedbunks • Slats • Unventilated manure tanks/pits • Feedlots • Floors 	508	4" + - 1"

- These mixes have durability with 3" slump concrete when properly placed and cured.
- AG-CRETE is Pumpable through a 4-5" hose.
- Addition of non-porous fibers may be used to reduce plastic shrinkage.

NOTE: This document should not be used as a substitute for experience or project specifications. Please contact your Representative for more information or for non-routine applications.

What the Professionals Think of AG-CRETE®



“The set times and strength gains are always consistent with AG-CRETE®.”

- Willy Kruse, Lester Building LLC



“I have used AG-CRETE® since the day it was developed and have ALWAYS had great cylinder breaks.”

- Leon Nerison, B & N Construction, Inc.



“AG-CRETE® is not only a quality product it also provides a healthier habitat for farm animals. Creating an environment on the modern dairy farm that is “cow-friendly” is easy with AG-CRETE® concrete.”

- Dr. Scott McKay, Veterinarian
Mondovi Vet Service, Mondovi, WI

“Quality concrete is better for both the animals and the farmers. Without concrete the modern farm wouldn't exist today.”

- Dr. Dan Tomsche, Veterinarian
Minnesota Vet Clinic, Melrose, MN



AG-CRETE®

© 2009 Owatonna Concrete Products, LLC/Randall Ready Mix, LLC - All Rights Reserved

OWATONNA CONCRETE PRODUCTS, LLC
639 Riverside Avenue
Owatonna, MN 55060
507-451-5347 • 1-800-294-1543

RANDALL READY MIX, LLC
1343 Highway 105 West
Northwood, IA 50459
641-324-1063 • 1-800-658-3081