

W. R. MEADOWS®

SEA TIGHT®

STRUCTURAL RESTORATION

Engineered to Last



Whatever your needs...
we have the solution.



#BR-7

RESTORATION

Concrete is one of the most durable building materials that man has ever developed, but as tough as it is, concrete, at some point in its life, will need to be repaired.

Choosing the proper repair strategy and products is as important as assembling the right restoration team. These will be the determining factors between a successful repair or an expensive failure.

What do you look for in materials for your successful repair strategy... experience... consistency... the latest proven technologies?

W. R. MEADOWS has been helping designers make concrete perform at its optimum for over 80 years. When it comes to helping you repair and restore that concrete ... no one beats our 80 years, consistency in ownership and experience.

W. R. MEADOWS realized that various technologies, many of which are still used today, were not working. Expensive restoration projects were being undertaken with concrete repair mortars that had a tendency to excessively shrink, resulting in cracking and loss of bond. This cracking allowed the ingress of chlorides back into the repair zone to re-attack the embedded rebar ... premature failure of the repaired area was imminent. The cost to contractors and owners for these premature failures was and continues to be significant.

Also, if not more important, the industry, through a coordinated research program, had determined that a successful structural repair required the repair mortar to behave like the host concrete. The similarities of the two materials would allow for proper load transfer and thus avoid point load transfer issues, which led to many long-term problems with past structural repairs.

The MEADOW-CRETE family of structural repair mortars was developed to combat this industry problem. Utilizing the latest technologies, the MEADOW-CRETE line of mortars were designed to have these properties:

- Exceptionally low shrinkage, shrinkage compensated
- Increased tensile capacity through polymer modification and fiber reinforcement
- Increased "toughness" and reduced permeability through the use of mica-silica and polymer
- Polymer-modified to enhance not only flexural strength, but also bond strength.
- Active protection of embedded rebar (migrating corrosion inhibitor)
- Physical properties similar to native concrete to ensure compatibility in truly structural repairs

MEADOW-CRETE is available in multiple formulations to suit specific project and application requirements from low-pressure spray, hand applied to form and pour applications. Our products are backed by a technical team that can help you choose the proper product for your specific requirements.

W. R. MEADOWS' extensive research and development department ensures that the latest proven technologies are at work for you in our structural repair line.





FUTURA®-15 is a one component, cementitious, very rapid-hardening structural repair mortar designed for horizontal applications. FUTURA-15 is composed of selected cements, graded sands and chemical additives. FUTURA-15 has a working time of 12 minutes and may be opened to traffic in as little as one hour. This proprietary blend produces a very rapid-setting structural repair mortar, even in cold weather conditions, without the aid of chloride- or gypsum-based accelerators. FUTURA-15 is designed for pavements, bridges, parking decks, and airport runways and taxiways.



MEADOW-CRETE GPS is a one-component, trowel applied or pneumatically applied (wet process), migrating-corrosion-inhibitor enhanced, polymer-modified, shrinkage-compensated, fiber reinforced, micro silica enhanced, cementitious repair mortar for horizontal, vertical and overhead applications from 1/4" to 4" in depth.



FUTURA-45 is a one component, cementitious, rapid-hardening structural repair mortar designed for horizontal applications. FUTURA-45 is ideal for commercial and industrial applications for the repair of industrial and warehouse floors, parking decks, expansion joint-edges, sidewalks and general commercial applications, along with grouting keyways. FUTURA-45 has a working time of 45 minutes and may be opened to traffic in three hours. FUTURA-45 is also suitable for structural patching of concrete pavements, bridges, airport runways and taxiways.



FUTURA-15 EXTENDED is a pre-extended version of the standard FUTURA-15 containing 3/8" nominal size aggregate that will not promote alkali-silica reaction (ASR). The aggregate has been tested and will not result in decreased product performance which a poor jobsite aggregate may cause, thereby ensuring long-term repairs.



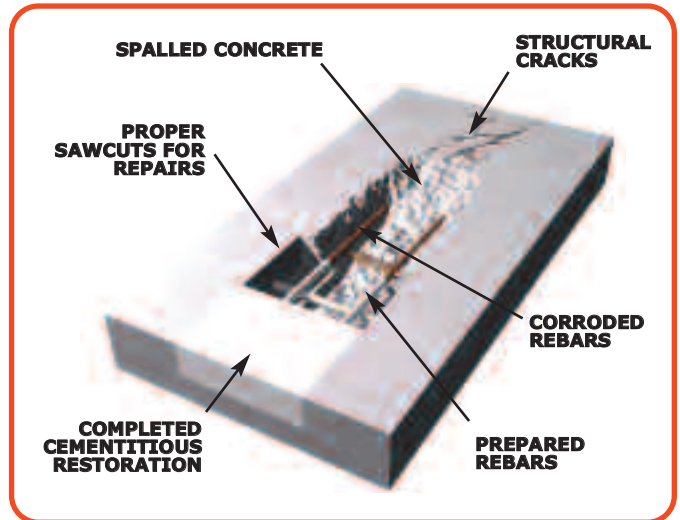
MEADOW-CRETE FNP EXTENDED is a one-component, pre-extended, shrinkage-compensated, high slump, flowable structural micro-concrete repair mortar. MEADOW-CRETE FNP EXTENDED is designed for the repair and reinstatement of concrete beams, columns, balcony edges, girders, slabs, and most other structural concrete elements, partial or full-depth. The product may be formed and poured or formed and pumped, utilizing a suitable concrete pump. MEADOW-CRETE FNP EXTENDED contains 3/8" nominal size aggregate and is highly suitable for applications requiring cathodic protection, impressed systems, or sacrificial anode applications.



FUTURA-45 EXTENDED is a pre-extended version of the standard FUTURA-45 containing 3/8" nominal size aggregate that will not promote alkali-silica reaction (ASR). The aggregate has been tested and will not result in decreased product performance which a poor jobsite aggregate may cause, thereby ensuring long-term repairs.



MEADOW-CRETE® FNP is a one component, flowable, self-compacting, self-consolidating, shrinkage-compensated, corrosion inhibitor enhanced, repair mortar for structural applications. MEADOW-CRETE FNP can be formed and poured or formed and pumped, utilizing a suitable grout pump. MEADOW-CRETE FNP is engineered to have similar load transfer and modulus of elasticity properties as the host concrete. It has a low permeability, protects embedded reinforcing steel and provides a lower in-cast placement.



Product Selector Guide:

Product	Application		Type	Consistency	Patch Depth (Minimum/Maximum) Inches	Package Unit Size	Application Temperature Min/Max °F	Typical Application	Initial Set Minutes @ 75° F	Final Set
	H	OV								
FUTURA - 15*	•			Semi-Flowable	1/2-Full Depth*	50 Lb. Bag	20-85	Bridge & Parking Decks, Highway & Runway Repairs, Industrial Slabs	14-18	20
FUTURA - 15 EXTENDED*	•			Semi-Flowable	3/4-Full Depth*	50 Lb. Bag	20-85	Bridge & Parking Decks, Highway & Runway Repairs, Industrial Slabs	14-18	60
FUTURA - 45*	•			Semi-Flowable	1/2-Full Depth*	50 Lb. Bag	40-95	Bridge & Parking Decks, Highway & Runway Repairs, Industrial Slabs	45	90
FUTURA - 45 EXTENDED*	•			Semi-Flowable	1/2-Full Depth*	70 Lb. Bag	40-95	Bridge & Parking Decks, Highway & Runway Repairs, Industrial Slabs	45	60
MEADOW-CRETE FNP*	•	•		Flowable/Pumpable	1/2-Full Depth*	50 Lb. Bag	40-95	Reinstatement of Columns & Beams Balcony Edges, Wall & Overhead Repairs	4 hrs	6 hrs
MEADOW-CRETE FNP EXT*	•	•		Flowable/Pumpable	3/4-Full Depth*	70 Lb. Bag	40-95	Reinstatement of Columns & Beams Balcony Edges, Wall & Overhead Repairs	4 hrs	6 hrs
MEADOW-CRETE GPS	•	•	•	Spray/Trowelable	1/4-3	50 Lb. Bag	40-95	Columns, Beams, Walls, Balconies Industrial Slabs, Bridges & Parking Decks	4 hrs	6 hrs

Application Key: H-Horizontal OV-Overhead/Vertical	Type Key: PM-Polymer Modified
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* Please consult technical data sheets or contact your W. R. MEADOWS technical representatives for information on extending products with aggregate for deeper applications, as well as detailed application and curing instructions.

STRUCTURAL RESTORATION

Ideal applications:

- Parking Garages
- Dams
- Water Retaining Structures
- Tunnels
- Buildings
- Shear Walls
- Balconies
- Concrete Pavement
- Bridges



If you need more information on W. R. MEADOWS complete renovation systems...

- Visit our comprehensive website: www.wrmeadows.com
- Contact W. R. MEADOWS, INC. via email: info@wrmeadows.com
- Call toll free: 1-800-342-5976
- Fax: 1-847-683-4544

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