Fibrecrete Preservation Technologies, Inc.

Nufins

Concrete Repairs & Bedding Mortars

MADE IN THE USA

www.fibrecretept.com

About Us

Fibrecrete Preservation Technologies (FPT) manufactures and distributes premium construction materials that are specifically designed for the repair, restoration, and maintenance of parking garages, highways, bridges, and other concrete structures.

Our portfolio includes materials for use in :

- **Bridge Expansion Joint Repairs**
- **Hot Applied Flexible Repairs**
- **Structural Concrete Repairs**
- **Joint Sealing**
- **Structural Waterproofing**
- **High Friction Surfacing**
- **ADA Detectable Warning Surfaces**

FPT can assist agencies in the design of new materials and specifications to fit their specific needs. Our products are used in every climate and temperature zone in the United States and will perform under the most extreme conditions – from summer in Laredo, Texas, to winter in Cleveland, Ohio, and everything in between.

With FPT, you not only get material expertise, you also get access to professionals who know how and why our products work. FPT products perform year after year and provide excellent value to DOTs, municipalities, or any agency responsible for infrastructure preservation.

For more information, please visit **www.fibrecretept.com.**

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Deck Repair Rapid

Rapid Curing Polymer Modified Cementitious Repair Mortar

Description

Deck Repair Rapid is characterized by its high early strength and low shrinkage. The material is microfiber reinforced and is ideal for use in projects where rapid traffic-readiness is required or where coatings are to be applied soon after repair.

System Benefits

- Rapid setting characteristics
- Early strength gain
- Excellent bonding properties
- Ready to use, only requires addition of clean water
- Ideal for internal and external use
- Can be open to light duty traffic in 1 hour
- Can be coated with epoxy after 4 hours
- Microfiber reinforced
- Shrinkage compensated
- Extendable by up to 50% by weight

Applications

- Repair of bridge decks prior to waterproofing
- Concrete highway pavement repairs
- Repairs that require a fast return to service
- Emergency reinstatement of damaged or deteriorated concrete
- Critical traffic routes and parking garages
- Airport runways & aprons

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Nugrout Flowable Concrete

Flowable, Self-Compacting Micro Concrete

Description

Nugrout Flowable Concrete is a single-component, polymer-modified, cementitious repair mortar. It is flowable and it contains a corrosion inhibitor to protect reinforcing steel. **Nugrout Flowable Concrete** is designed for structural repair situations and for full depth repairs.

System Benefits

- Has controlled expansion and is low shrinkage
- Good early compressive and flexural strength
- Designed to facilitate cathodic protection
- Material can be pumped, poured, and vibrated
- Excellent bond strength to steel and concrete
- Requires only addition of clean water
- Excellent flow and placement characteristics
- Resistant to vibration and impact

Applications

- Repairs to in situ structural decks, including but not limited to bridge and parking decks
- Repairs of horizontal surfaces and formed vertical and overhead surfaces
- Compactable with galvanic anodes
- Can be used as a void filler
- Ideal for repairs containing high concentrations of reinforcing steel

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Nucem HB Mortar

High Build, Lightweight Fiber-Reinforced Mortar

Description

Nucem HB Mortar is designed for the repair and restoration of spalled or damaged concrete in over-head and vertical locations. It is a fast setting, single-component, polymer modified repair mortar. **Nucem HB Mortar** is designed to be mixed with clean water to give a low shrinkage with premium performance.

System Benefits

- Contains a corrosion inhibitor to protect the steel
- Excellent adhesion to dense concrete and steel
- Lightweight for overhead use
- Single component for easy site use
- Excellent workability and finishing properties
- Good resistance to water, frost, and salt permeation
- Polymer modified and fiber reinforced
- Low permeability helps protect the steel and provides excellent freeze-thaw protection

Applications

- Repair of concrete damaged by reinforcement corrosion or fire
- Repairs to spalled columns, beams, and soffits
- Excellent for marine structures
- Waterproof render to concrete, brickwork, and blockwork
- Above- and below-grade applications
- Good for all concrete structures where overhead or vertical repairs are required

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Nucem Concrete & Mortar

Polymer Modified Cementitious Concrete

Description

Nucem Concrete is a pre-packed shrinkage compensated repair concrete that contains corrosion inhibitors to protect the reinforcing steel. It is micro-silica modified to give it high strength and is premixed with pea gravel. It is also compatible with galvanic anodes. This mortar is suitable for all concrete repairs from a depth of 1" to full depth. It requires only clean water and is easy to mix and place.

Nucem Mortar is chosen for the repair of smaller sections from feather edge to 1" in depth, mainly in horizontal applications. It is polymer-modified and single-component.

System Benefits

- Excellent adhesion to dense concrete and steel
- Single-component materials to allow easy mixing and placement
- Excellent workability and finishing properties
- Good resistance to water, frost, and salt penetration
- Low permeability
- Long term durability

Applications

- Repair damaged concrete both in situ and precast
- Repair damaged floors, bridge decks, and road surfaces
- Screeding where abrasion- and/or water-resistance is required
- Repair spalled columns and beams using formwork

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Spraycem 301

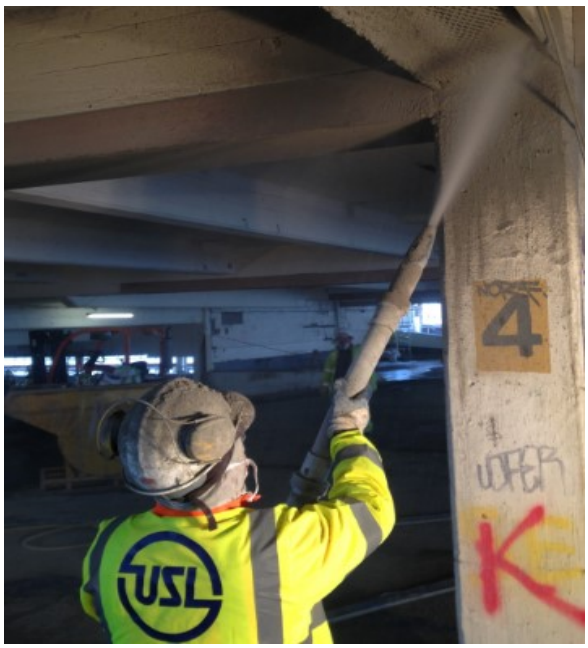
Spray-Applied Cementitious Repair Mortar

Description

Spraycem 301 is a pre-packed, one-component, polymer-modified spray repair mortar. This mortar is designed for spray or hand trowel applications and is ideal for large repairs to reinforced concrete structures that have been damaged by reinforcement corrosion or frost attack. **Spraycem 301** is fiber-reinforced and is combined with graded aggregates and polymers to improve strength, bond, and sprayability.

System Benefits

- Excellent durability and resistance to water, frost, and salt attack
- Rapid strength development
- Excellent high build characteristics
- Silica fume and polymer enhanced
- Excellent adhesion to correctly prepared substrates
- One-component, only requires addition of water
- Formulated using corrosion inhibitors
- Suitable for repairs from 3/8” to 2”



Applications

- Bridges
- Retaining walls
- Tunnels
- Reservoirs and other water industry structures
- Building facades
- Marine structures
- Interior/exterior use

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Nupatch Bedding Mortar

Rapid Setting Bedding Mortar

Description

Nupatch Bedding Mortar is characterized by its built-in strength development, which enables work to be done with the minimum of disruption. It is ideal for bedding and raising manhole frames and as a rapid-setting repair mortar in lightly trafficked pedestrian areas. This is a single-component, rapid-setting, cementitious repair mortar designed for both interior and exterior use. **Nupatch Bedding Mortar** can be used for light duty pedestrian applications plus vertical and overhead concrete repairs.

System Benefits

- Rapid setting characteristics
- Interior/exterior use
- Compatible with cathodic protection systems
- High compressive strength
- Excellent adhesion to dense concrete and steel
- Simple to use, only requires the addition of clean water
- Excellent workability and finishing properties
- May be used for repairs up to 4” deep
- Resistant to freeze/thaw cycles

Applications

- Bedding and raising manhole frames
- Fixing street furniture
- Rapid setting posts and railings
- High strength repair mortar
- Bedding for copings
- Vertical and overhead repairs

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Epicon Mortar

General Purpose High Strength Epoxy Mortar

Description

Epicon Mortar is an extremely versatile epoxy mortar suitable for several building and repair needs where excellent adhesive bond, high strength, abrasion- and chemical-resistance are required. **Epicon Mortar** is a pre-weighed, three-component system consisting of a solvent-free epoxy resin, a hardener, and a specially graded iron aggregate.

System Benefits

- High compressive and tensile strength makes it ideal for areas with extra heavy duty traffic
- Excellent adhesion
- Provides a non-slip surface with excellent abrasion resistance
- Traffic ready the same day
- Resistant to a wide range of chemicals
- Tolerant to road salts and freeze/thaw cycles
- 100% solids epoxy mortar
- Non-shrink and grey in color
- Extremely high early strength; stronger than concrete within 24 hours

Applications

- Repair worn and damaged concrete floors and stairs
- Repair spalled expansion joints
- Repair concrete and asphalt roads and runways
- Repair metallic shake floors

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Epicon F.S. Mortar

Fast-Setting High Strength Epoxy Mortar

Description

Epicon F.S Mortar is a fast curing, heavy duty epoxy mortar formulated for the rapid repair of concrete surfaces. **Epicon F.S Mortar** is a pre-weighed, three-component system of 100% solids epoxy resin and hardener that, when blended with the aggregate provided, forms a high strength mortar with outstanding adhesive properties.

System Benefits

- High early strength development
- Excellent adhesion
- Low modulus resin binder that gives excellent resistance to impact
- Resistant to a wide range of chemicals
- Tolerant to road salts and freeze-thaw
- No primer needed
- Moisture insensitive
- Can be colored
- Traffic ready the next day

Applications

- Repair worn and damaged concrete floors and stairs
- Repair spalled expansion joints
- Versatile repair material for use in all reinforced concrete structures

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Nucem Primer

Cementitious/Epoxy Primer Tack Coat

Description

Nucem Primer is designed to bond new cement-based products to existing concrete and steel surfaces. It is a three-component, water-based epoxy bonding and anti-corrosion coating. **Nucem Primer** contains a corrosion inhibitor to protect the steel, and is an excellent bonding agent for placing fresh concrete and repair mortars into existing concrete substrates. Developed for use with Nucem cementitious repair compounds, the formulation is based on water-dispersible epoxy resin containing cement, which provides an alkaline environment to protect steel reinforcement from chloride and carbon dioxide attack.

System Benefits

- Bonding agent for all NUFINS concrete repair materials
- Used for both cement and epoxy repair mortars
- Interior/exterior use
- Provides added protection to steel reinforcement through the addition of a corrosion inhibitor
- Ease of application by spray or brush

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IN PARTNERSHIP WITH

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