



CheMix

Space-Age Materials

A photograph of a modern, multi-story building with a glass facade and balconies featuring greenery. The sky is blue with some clouds. The title 'ChemMix Presentation Outline' is overlaid in large white text.

ChemMix Presentation Outline

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CheMix

Product Description

CheMix is a single ingredient liquid that cures into a solid with extraordinary strength and hardness. The chemistry can be formulated to suit a variety of characteristics to fit many practical applications in construction, consumer products and more



ChemMix

A VERSATILE Building Material

ChemMix can be customized to fit specific job requirements using following factors :

- **Extreme Strength**

- stronger and harder than concrete - ranging from 20,000 to 350,000 psi
- Can be formulated to extreme levels for bullet-proof and blast rated strength

- **Color**

- can be tinted to a wide variety of colours
- Can even be formulated as an optically clear material
- Suitable for window wall or roof applications

- **Set / Cure time**

- Has a FAST cure time - can be configured for within minutes OR as long as one hour

- **With or without fillers**

- fillers could be aggregates, ground glass, ground plastic, fly-ash, petroleum coke and other waste materials

CheMix

Product Background

- CheMix has a long history with the US military - but was never commercialized
- Used to repair roads / runways damaged by mortars & IEDs in Iraq & Afghanistan
 - US Army Corps of Engineers used more than 10M lbs in Afghanistan
- Designed to repair road washouts and highways quickly with
 - Capable of quickly filling deep holes and wide gaps (3M deep, 15M wide)
 - Solution poured till level with top to cure - ready to use within minutes
 - Dade County Hurricane testing - projectile did not even mark the wall
- A road built with CHEMIX in 1970s is still in use and in good condition today

CheMix - Many Construction Applications



New Materials & Methods for Modern Construction

- **Building Structure**
 - Foundation
 - Structural Walls
 - Floors
 - Roof
- **Building Elements**
 - Curtain Walls
 - Partition Walls
 - Window Walls
- **Parking Areas**
 - driveway
 - parking structure
- **Landscaping**
 - retaining walls
 - sidewalks
 - steps

CheMix

AMAZING Building Material

- ◆ FireSafe prevents ignition / spread of fire when coated on flammable surfaces
- ◆ Contains ZERO Volatile Organic Compounds (VOCs) meaning no toxic fumes when exposed to fire
- ◆ Can be applied in form of a durable membrane, a paint or as a clear coating, and more
- ◆ FireSafe is also VERY effective at blocking heat transfer to material surface

CheMix

Material Properties

- Liquid formula
- Cures quickly (15 seconds to 15 minutes)
- Available in a wide variety of colors
- does NOT require rebar reinforcement
- does NOT absorb water
- Serves as a thermal break

Features that can be customized

- colour
- set time
- hardness / flexibility

Working with CheMix

- **CheMix** needs no special equipment to transport or dispense on site
 - It does NOT require mix trucks or pumper trucks as concrete does
 - It can be shipped using light trucks and totes (for small jobs) or tank trucks
- **CheMix** is much easier to dispense on the job site
 - It fills up forms with a consistency similar to water
 - It is pumped with a long, lightweight hose - easily handled by one person
- **CheMix** is self levelling - does not need to be vibrated or troweled
- **CheMix** is MUCH less time-sensitive to work with than concrete

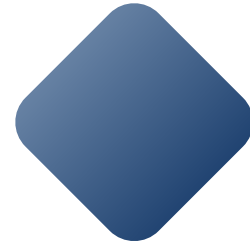
CheMix

Application Methods



Poured

as in concrete forms



Moulded

large texture fence panel, tilt up wall panels



Blown / Foamed

Ideal for making strong / lightweight panels



Injected

pre-fab stairway, seating for stadiums



Sprayed

coatings over walls, roofs, domes

CheMix 20K

MATERIAL PROPERTIES

- Flex Modulus - 20,000 psi
- Tensile Strength - 1,200 psi
- Elongation - 450 %
- Hardness - Shore A - 60 A

FORMULA APPLICATIONS

- Road pothole repair for asphalt or concrete
- heavy traffic industrial floors
- chemical prone spill floors
- refrigeration space floors
- marine break-walls,
- under ceramic and other
- traditional flooring

CheMix 35K

MATERIAL PROPERTIES

- Flex Modulus - 35,000 psi
- Tensile Strength - 2,000 psi
- Elongation - 400 %
- Hardness - Shore A - 75 A

FORMULA APPLICATIONS

- Road pothole repair for asphalt or concrete
- heavy traffic industrial floors
- chemical prone spill floors
- refrigeration space floors
- marine break-walls,
- under ceramic and other
- traditional flooring

CheMix 240K

MATERIAL PROPERTIES

- Flex Modulus - 240,000 psi
- Tensile Strength - 5,500 psi
- Elongation - >20 %
- Hardness - Shore D - 80 D

FORMULA APPLICATIONS

- Road pothole repair for asphalt or concrete
- High traffic industrial floors
- chemical prone spill floors
- refrigeration space floors
- marine break-walls,
- under ceramic and other
- traditional flooring

CheMix 350K

MATERIAL PROPERTIES

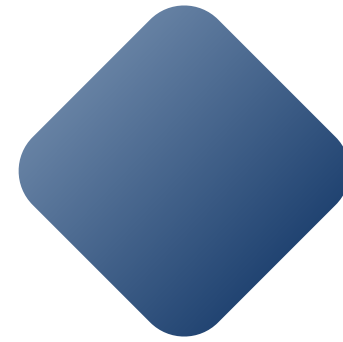
- Flex Modulus - 350,000 psi
- Tensile Strength - 5,000 psi
- Elongation - >18 %
- Hardness - Shore D - 70 D

FORMULA APPLICATIONS

- Road pothole repair for asphalt or concrete
- High traffic industrial floors
- chemical prone spill floors
- refrigeration space floors
- marine break-walls,
- under ceramic and other
- traditional flooring

CheMix

MOST Distinguishing Features



Physical Properties

- EXTREME strength and durability



Ease of Handling / Storage

- Easy to move, pump and apply



Time Savings

- Quick set-up time is a HUGE advantage
Safe for enclosed spaces

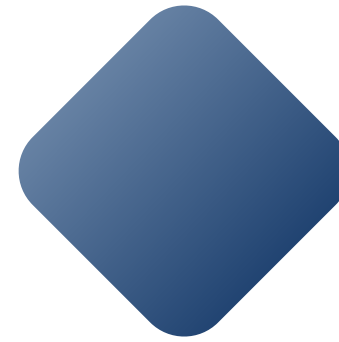


Versatility

- FireSafe Technology can be applied to a variety of applications

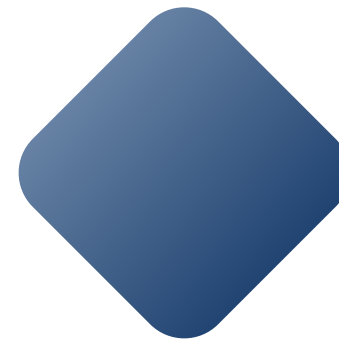
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Compared to Concrete



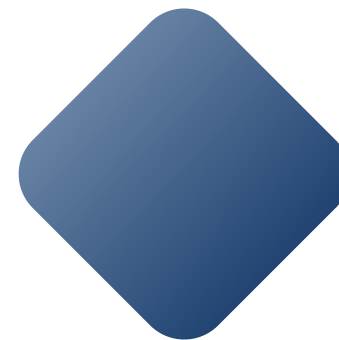
Less Equipment

- EXTREME strength and durability
- No more scheduling loads of product
- No more pumper trucks



Ease of Handling / Storage

- Easy to move, pump and apply



Time Savings

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