

# carpenter**stone**®



*The New Age of Stone*

## The New Age of Stone

From the Stone Age, over three million years ago and through the millennia, stone has evolved as the most commonly used construction material. CarpenterStone, the next evolution in material sciences, marks the New Age of Stone. A concrete additive, CarpenterStone is engineered to produce a revolutionary mortar that cuts like wood, lasts like stone, and has the beauty of both. This new, "green" building material has attributes never before achieved with mortar, but without its problems. It was worth the three-million-year wait.



## Better Than Stone, Better Than Wood

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An advanced-technology chemical admixture, CarpenterStone dramatically improves concrete. It efficiently binds cement with lightweight aggregates like vermiculite and reinforcing fibers. This superior bonding between the cement, aggregate, and fibers is achieved using less water and chemically controlling its evaporation. The result is a stronger and lighter-weight mortar than ever before possible.



Unparalleled in function, form and usage, CarpenterStone mortar is:

- Fireproof
- Resistant to mold and mildew
- Termite-proof
- Strong
- Lightweight, as much as 50 to 75% lighter than concrete, depending upon the mix
- UV-stable
- Breathable, freeze-and thaw-resistant



## Better to Tool

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Combining the advantages of concrete and wood without their drawbacks, CarpenterStone mortar can have four times the tensile and flexural strength of concrete. Depending upon the need, it can.

- Formed into virtually any shape or size.
- Molded or stamped to simulate any building material, any finish, any texture...from any type of wood to any type of stone, including limestone, sandstone, marble, basalt, granite, slate, travertine and mosaics.
- Stained, painted, or integrally colored throughout the mix.
- Cut, trimmed, routed, nailed, stapled, screwed or bonded.
- Attached to virtually any substrate, including gypsum wallboard, concrete block, wood, and metal.
- Poured, sprayed, or extruded.



## Better for Precasters

For precasters, the business case for CarpenterStone is powerful. It reduces costs, increases productivity and improves the bottom line because it:

- Is 50-75% lighter than concrete, depending upon the formula.
- Has increased tensile and flexural strength.
- Produces thinner-walled products and a higher yield.
- Can be manufactured by either semi-skilled labor or with highly automate, material processing and handling equipment.
- Can be installed by carpenters instead of masons.
- Is easier to use and faster to install.
- Requires less heavy equipment for installation.
- Shortens the project timelines and saves of financing costs.
- Reduces the potential for cracking, chipping and hazards typically experienced in handling and transportation
- Reduces shipping expense.
- Decreases risk of injury and lowers insurance costs.
- Reduces wear and tear on molds.



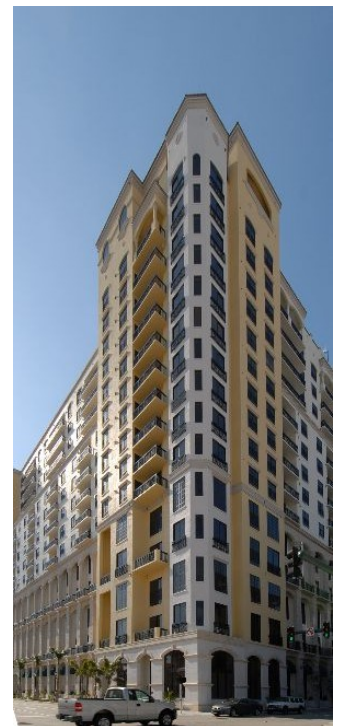
### CarpenterStone Compared to Foam

- Higher quality “look and feel”
- Fireproof
- Mold resistant
- Environmentally friendly
- Increased density significantly prevents damage from birds
- Does not need a hard coat
- Does not need paint
- Attaches in the same manner as foam

## Better for Architects

Lighter in weight, CarpenterStone mortar significantly expands design possibilities for architects:

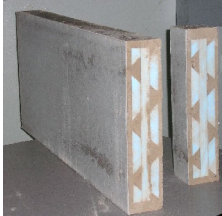
- Allows the freedom to design with less support considerations due to the reduced weight.
- Reduces the size and strength requirements of the concrete footings and steel infrastructure.
- Can be used on virtually any substrate.
- Permits cantilevering at greater distances.
- Reduces construction costs.



## Better Applications

CarpenterStone mortar is suitable for virtually any decorative or architectural concrete application, in any finish, texture or color. It has the potential to replace many of the popular building materials, as well as expand the applications for precast in end-user products.

Here are just a few of the possible applications.



### Potential Applications

- Architectural elements and trim, such as:
  - Molding
  - Sills
  - Banding
  - Finials
  - Brackets
- Columns and capitals
- Balusters
- Stone veneer
- Fencing, siding, panels
- Hollow core walls and floors
- Sound barriers
- Encapsulated foam-insulated curtain walls
- Tilt-up modular walls systems
- Garden products
- Exterior cladding
- Shutters
- Artwork and picture frames



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