

Cellulose Nanomaterial Additives for Gypsum Hemihydrate (Plaster of Paris)

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Categories:

- Materials and Manufacturing
- Mechanical Engineering

Keywords:

- Additives
- Ceramics
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- Mechanical Engineering

Researchers at Purdue University have developed a new approach to strengthening gypsum hemihydrate, also known as Plaster of Paris (PoP) by introducing a natural, sustainable additive that increases material density. The technique allows for faster curing time in PoP as well, which can be useful for dry wall, mold making, and artisan crafting. Further testing on hydration and rheology on PoP is being conducted by Purdue researchers.

Advantages:

- Material strength
- Fast curing

Potential Applications:

- Drywall
- Mold making
- Artisan crafting

People:

- Youngblood, Jeffrey Paul (Project leader)

Intellectual Property:

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