



# Levasil FO2040

colloidal silica rigidizer  
for refractory shapes

## Why Levasil FO2040?

- **Temperature Grade:** 2300°F (1260°C).
- **Coverage:** 100 – 200 square feet per gallon.
- **Less Shrinkage at High Temperature -** Larger particle size and lower sodium content than small particle size silica sols gives lower shrinkage at temperatures up to 2300°F.
- **Saves money - 40%** concentration means more silica per drum, lowering freight costs on both drum and bulk deliveries..

## Typical Properties

Appearance	Clear liquid
Specific Gravity	1.30
Surface Area, m <sup>2</sup> /g	200
Particle size, nm (calc)	14
Silica, wt%	40
pH @ 25°C	10
Temperature Grade	2300°F
Coverage (square feet/gal)	100 - 200

## Storage, Handling and Safety

Prolonged exposure to temperatures of 0°C (32°F) or below should be avoided as the silica will precipitate irreversibly.

Avoid skin and eye contact. Refer to SDS for complete safety information.

## Packaging

Plastic 55 gal. drums; 1 & 5 gal. pails.

**Levasil FO2040** is a colloidal silica for rigidizing of refractory fiber shapes and boards. It is used to increase surface hardness and reduce erosion. **Levasil FO2040's** larger particle size and higher solids result in higher packing densities and stronger bonds. **Levasil FO2040** is more concentrated and contains less sodium than standard rigidizers.

## How to Use Levasil FO2040

**Levasil FO2040** can be applied by brushing, dipping, rolling, or spraying. Suitable respiratory and eye protection, and ventilation, are required when applied by spraying. All equipment should be rinsed thoroughly with water after use.

Materials to be rigidized should be free of all grease and oil.

**Levasil FO2040** can be diluted with water to control application rate and silica pick-up.

The bonding action of colloidal silica comes from the removal of physical water. Note that rigidizing can be achieved by air-drying, while heating or oven drying will accelerate this bonding. Drying time is a function of the size and geometry of the rigidized shape, and the amount of rigidizer applied.

An application rate of one gallon per 100-200 square feet of ceramic fiber shape surface area will render a hard surface without completely rigidizing the interior of the ceramic fiber body.

Addition of a nonionic wetting agent such as **Wesbond PS9400W** will increase penetration and saturation.

For a price quote and valuable information on how we can help you improve your vacuum formed products call

**WESBOND**  
**(302) 655-7917**