



# Polymer QDA 2004

Latex polymer  
for fiber vacuum forming

Polymer QDA 2004 is a latex for fiber vacuum forming. The polymer's unique physical properties result in higher green strength.

## Why QDA 2004?

- **Performance** - Originally developed for the investment casting industry where it is used to enhance green strength, improve wax wetting and stucco adhesion, and to increase shell build thickness.
- **Compatibility** – QDA 2004 is a carboxylated styrene-butadiene copolymer latex, pH balanced to work with colloidal silica.
- **Performance** - Improves green MOR of fiber shapes.

## Typical Properties

Appearance	Thick White Liquid
Specific Gravity	1.00
Nonvolatile content, %	44.0 – 47.0
pH	8.0 – 9.0
Viscosity, Brookfield, (cps)	175 MAX
Toxicity	Non-Toxic. See SDS

\*Typical value for WESIL CS bonded fiber products

## Storage, Handling and Safety

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

## Packaging

1-gallon and 5-gallon pails. 55-gallon drums, 425 lbs. Net.

## How to Use QDA 2004

QDA 2004 should be added to the slurry at 5 - 10 weight percent of the dry colloidal silica.

### Typical Formulation:

Water, Gallons	50
Refractory Fiber, lbs	8
QDA 2004, lbs	0.5
Westar +3 Cationic Starch, lbs	4
Levasil FO2040 Colloidal silica, lbs.	14

Follow above order of addition, adding QDA 2004 after the fibers have dispersed. Allow sufficient mixing time after QDA 2004 addition for complete dispersion before adding starch.

Allow 10 minutes for starch to dissolve before adding colloidal silica. Allow 5-10 minutes to disperse and floc before dropping to holding or forming tank. Form in normal fashion. Dry at 250°F.

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

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