



Wesil RP

complete binder system
for vacuum forming fibers

Why Wesil RP?

- **Replaces noxious phenolics** - Non-toxic heat set resin replaces hazardous phenolic resin systems.
- **Increased hardness** – Heat-set resin can be used to replace starch and colloidal silica where extra hardness is required.
- **More moisture tolerant finished product** - Formed parts are more able to maintain hardness and strength if exposed to humidity.
- **No cristobalite** - Completely cristobalite free at use temperature eliminating a common source of thermal shrinkage problems and health related concerns.

Typical Properties

Appearance	Light Brown Powder
Bulk density, pcf	28
Loss on Ignition (800°C)	60%
Product LOI (800°C)*	5 – 6%
Fusion Point, binder	2400°F

*Typical value for WESIL RP bonded fiber products

Storage, Handling and Safety

Store in a dry place. Keep container closed to prevent moisture pickup.

Avoid inhaling dust. Refer to SDS for complete safety information.

Packaging

55 gal. fiber drums, plastic lined, 250 lbs. net

Wesil RP is a complete system for fiber bonding designed to **R**eplace the **P**henolic resin systems in riser sleeves and other foundry applications. Wesil RP contains cationic starch to floc the aluminosilicate binder on to the fibers, and a non-toxic heat-set resin that sets up during drying to give extra hardness, strength, and resistance to moisture.

How to Use Wesil RP

Wesil RP is a complete floccing and bonding system and should always be added directly to the fiber slurry (after dispersing fibers and fillers). The binder, fibers, and fillers will be flocced together in a three-dimensional pattern for product integrity and strength.

Typical Formulation:

		with filler
Water, Gallons	50	50
Refractory Fiber, lbs	8	8
Mullite 100 filler, lbs	-----	3
Wesil RP, lbs	1.0	1.25

Follow above order of addition, adding the dry Wesil RP Binder last after dispersion of fiber and fillers; allow 5 - 10 minutes to disperse and floc before dropping to holding or forming tank. Form in normal fashion. Formed boards and shapes should be dried at 250° F minimum to set resin.

Wesil RP has a low starch content so less capacity to hold fillers; if you use more than 50% fillers (by weight of fibers), more Wesil RP will be required to hold floc.

Note proper use: WESIL RP Binder must not be pre-dissolved as it will floc on itself instead of the fibers.

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

WESBOND
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