



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** – One binder replacing two means fewer operations and less chance for error.
- **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
Toxicity	Non-Toxic. See SDS

*Typical value for WESIL RP bonded fiber products

Storage, Handling and Safety

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

Packaging

55 gal. fiber drums, 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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