WHAT IS CLAIMED IS:

1. A protective component forming apparatus that forms a layer of a resin with a desired thickness on one surface of a plate-shaped workpiece, the protective component forming apparatus comprising:

a chuck table that holds the workpiece with interposition of a sheet;

a tank that stores a liquid resin cured by an external stimulus;

a resin supply unit having a pump and a pipe that supply the liquid resin from the tank to the sheet held by the chuck table;

a pressing unit that causes the one surface of the workpiece to face the liquid resin supplied to one surface of the sheet held by the chuck table and presses the workpiece;

a curing unit that gives the external stimulus to the liquid resin pressed by the pressing unit and cures the liquid resin;

a resin inspecting part that senses change in viscosity of the liquid resin in association with change in quality of the liquid resin; and

an informing unit that transmits information to an operator, wherein

the resin inspecting part

measures a flow rate of the liquid resin that flows in the pipe by the pump; or

measures a load applied to the pressing unit that presses the liquid resin via a strain gauge attached to a rising-lowering component of the pressing unit, and

when a measurement value is outside an allowable range set in advance, the resin inspecting part informs that the measurement value is outside the allowable range by the informing unit, and operation of the protective component forming apparatus is stopped.

2. The protective component forming apparatus according to claim 1, wherein

when the resin inspecting part measures a flow rate of the liquid resin that flows in the pipe by the pump, the resin inspecting part includes a measurement unit that comprises a flowmeter.

3. The protective component forming apparatus according to claim 1, wherein the one surface of the workpiece facing the liquid resin supplied to the one surface of the sheet held by the chuck table gets contact with the liquid resin with interposition of a resin film.

4. The protective component forming apparatus according to claim 3, wherein

the resin film

has an outer circumferential edge to which an annular frame is stuck;

has a larger diameter than the workpiece; and

is stuck to and in close contact with a front surface of the workpiece and surfaces of bumps of devices that protrude from the front surface of the workpiece without a gap.