CLAIMS

[Claim 1] A rotor core comprising:

a plurality of laminated electrical steel sheets;

a fixing portion that fixes the electrical steel sheets adjacent to each other in a lamination direction together; and

a first adhesive portion that is partially provided in a region different from the fixing portion between the electrical steel sheets and has a fixing strength different from a fixing strength of the fixing portion,

wherein

the electrical steel sheet includes a first portion that is required to have a higher strength than that of other portions of the electrical steel sheet,

the first portion includes a bridge portion, and

the first adhesive portion is provided so as to cover the first portion of the electrical steel sheet.

[Claim 2] The rotor core according to claim 1, wherein

each of the electrical steel sheets has one or more through-holes for installing a permanent magnet constituting each of a plurality of magnetic poles, and

the first portion includes a first bridge portion formed between an outer circumferential edge of the electrical steel sheet and the through-hole.

[Claim 3] The rotor core according to claim 1, wherein

each of the electrical steel sheets has a plurality of through-holes for installing a plurality of permanent magnets constituting each of a plurality of magnetic poles, and

the first portion includes a second bridge portion formed between two adjacent through-holes in each of the magnetic poles.

[Claim 4] The rotor core according to claim 1, wherein

the fixing portion is a second adhesive portion that is provided between the electrical steel sheets adjacent to each other in the lamination direction and bonds the electrical steel sheets together, and

compressive stress remaining in the first portion where the first adhesive portion is provided is greater than compressive stress remaining in the second adhesive portion.

[Claim 5] The rotor core according to claim 4, wherein the second adhesive portion is provided to cover a remaining region without the first adhesive portion between the electrical steel sheets adjacent to each other.

[Claim 6] The rotor core according to claim 5, wherein the fixing portion is a second adhesive portion in which a second adhesive different from a first adhesive that becomes the first adhesive portion when solidified is solidified, and is partially provided between the electrical steel sheets.

[Claim 7] The rotor core according to claim 1, wherein the fixing portion is a crimping portion.

[Claim 8] A rotor comprising:

the rotor core according to claim 1;

a permanent magnet that is installed in the rotor core; and

a rotary shaft that is fixed to the rotor core.

[Claim 9] A rotary electric machine comprising:

the rotor according to claim 8; and

a stator.

[Claim 10] A pressurizing jig that is used for manufacturing a rotor core having a first adhesive portion and a second adhesive portion according to claim 1, the pressurizing jig comprising:

a pressing surface that presses the first adhesive portion and the second adhesive portion, wherein

in the pressing surface, a first pressing portion corresponding to the first adhesive portion protrudes more than a second pressing portion corresponding to the second adhesive portion.