[CLAIMS]

What is claimed is:

1. A coating composition for an electrical steel sheet comprising:

an epoxy resin;

an epoxy resin curing agent; and

an elastomer-modified phenolic resin,

wherein an amount of the elastomer-modified phenolic resin is 10 parts by mass to 100 parts by mass with respect to 100 parts by mass of the epoxy resin,

wherein a weight average molecular weight of an elastomer portion of the elastomer-modified phenolic resin is 4,000 to 200,000.

2. The coating composition for an electrical steel sheet according to claim 1,

wherein a curing shrinkage rate is 15% or less.

3. An electrical steel sheet comprising:

an insulation coating containing the coating composition for an electrical steel sheet according to claim 1 or 2 on a surface.

4. A laminated core,

wherein a plurality of the electrical steel sheets according to claim 3 are laminated and caused to adhere together.

5. A rotary electric machine comprising:

the laminated core according to claim 4.