



IS 14697:1999 - AC static transformer operated watt-hour and VAR-hour meters, class 0.2S & 0.5S

This standard outlines specifications for exterior enamel used in domestic and decorative applications. It includes two main types: undercoating and finishing enamels, which are applied to provide a durable, aesthetic protective layer on surfaces.

Consumers expect the enamel to be durable, color-retentive, and smooth, with a high-quality finish that resists weathering. Safety, particularly low lead content, is also essential, as many of these paints are used in residential environments where exposure to toxic materials can be a concern.

To ensure consistent quality, the standard specifies acceptable pigment and extender compositions and mandates durability tests, such as outdoor weather exposure and accelerated aging, to verify the enamel's resilience over time. Safety is addressed by limiting lead content to 90 ppm, minimizing the risk of toxic exposure. The standard also prescribes guidelines for maintaining color consistency, gloss, and finish, helping the enamel retain its aesthetic and functional qualities while meeting consumer expectations for both performance and safety in residential and decorative applications.