



## **IS 1834:1994 Specification for hot applied Sealing Compounds for Joints in Concrete**

**Hot applied sealing compounds** are used in **sealing joints in concrete roads, runways, bridges and other structures**. Joint sealing compounds are composed of suitable mixtures of materials which form a resilient and adhesive barrier in concrete joints and are capable of resisting the infiltration of water and the ingress of solid particles. Sealing compounds are employed for filling contraction and construction joints as well as a sealing medium above expansion joint fillers to a depth not exceeding 40 mm.

The important properties required in sealing compounds are that it can be **applied without difficulty**, are **not unduly affected by temperature variation**, adhere strongly to the concrete, and resist any tendency to flow out of the joint under hot weather conditions or picked up by vehicle tyres under hot weather conditions or become brittle or suffer loss of resiliency during cold weather conditions. These are **Highly adhesive, Smooth texture and Cost effective**. On heating, they shall be capable of acquiring a pouring consistency enabling them to be run molten in a uniform manner into all types of horizontal joints without difficulty.

The Indian Standard IS 1834:1994 Specification for hot applied Sealing Compounds for Joints in Concrete specifies **hot applied sealing compounds** intended for **use in sealing joints in concrete roads, runways, bridges and other structures**. This standard covers two grades of sealing compounds: **Grade A (Ordinary)** and **Grade B (Fuel Resistant)**. Grade A is suitable for **concrete constructions** other than those which are subjected to spillage of kerosine or other petroleum oils. Grade B is suitable for use in construction where **resistance to kerosine or other petroleum oils** is required. The sealing compounds conforming to this standard are tested for **pour point, flow test, extensibility, penetration and aviation fuel resistance** to ensure compliance to the desired properties.