

TECHNICAL DATA SHEET

Issue No
004/01

Revision Date
01.10.2022

Product

TECHNIC RL

It gives good bond strength with all fibres like cotton, rayon polyamide and polyester.

Classification

Single Component Dry Bonding Agents.

In case of steel cord brass and zinc coated cords, it gives more adhesion than the uncoated cords.

Composition

A pre-condensed product mix of Resorcinol and Hexa Methoxy Methylol Melamine (HMMM).

Due to its liquid form it is mixed homogenously throughout the compound providing uniform adhesion. Curing temperature preferred in between 135 – 170 oC

Physical Properties

Form : High Viscous Liquid
Colour : Orange - Red Brown
Sp Gr @ 25°C : 1.20

Technological Properties (Usage)

TECHNIC RL can be used as a single component Dry Bonding System for bonding different rubber compounds with steel cord, polyamide fibres, polyester and glass cords. It offers a balanced combination of good adhesion and excellent flex fatigue resistance. Typical application includes Conveyor, Hoses, V-Belts & Fabric proofing.

Chemical Properties

Nitrogen Content : 10 - 12
Refractive Index : 1.57 +/- 0.03

Solubility

Water : Partially soluble
Alcohol : Soluble
Ketones : Partially soluble
Aromatic Solvents : Insoluble

Handling precaution

Standard protective equipment to avoid contact with skin and eyes should be used during handling. May be irritating to eyes and skin. Washing with plenty of water is advised to be followed by a medical check-up. Refer MSDS for more details

Storage Properties & Shelf Life

TECHNIC RL is a high viscous product which has a tendency to solidify on exposure to heat. It must be protected from exposure to direct sunlight and relative humidity. The product should be stored in a cool dry place

Packaging

25 kgs net weight packed in Steel / Plastic drums

Processing Behavior

It is safe in processing.

Shelf Life

12 months from the date of manufacturing

Recommended Dosage

Between 4 to 6 phr is normally recommended for the Dry Bonding System.

Advantages

TECHNIC RL is a pre-condensate of Resorcinol and HMMM. It is a single component system, thus no need to add any other Methylene / Resorcinol Donor separately into the rubber compound.

The product is compatible with all rubbers. Best results are obtained with polar rubbers.

Note:

Information in this publication is believed to be accurate and is given in good faith, but it is for the customer to satisfy itself of the suitability for its own particular purpose. Techno Products India gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that law prevents such exclusion.