

**TECHNICAL DATA SHEET**

**Issue No**  
**003/01**

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**Product:**

TECHNIC TR100

**Classification**

Phenolic Tacifier Resin for Rubber Industry  
Alkyl Phenol Formaldehyde Resin

**Composition**

TECHNIC TR100 is a phenolic, thermoplastic tackifier resin. It is ideally suited for manufacturing of Tires and Mechanical Rubber goods, which require high tack levels.

**Physical Properties**

Physical form : Pastilles / Flakes  
Color : Yellow to brown  
Specific Gravity : 1.00 – 1.04

**Chemical Properties**

Softening point (°C) : 85 –100  
Ash Content @ 750°C/2hr : 0.1 % max  
Heat Loss @ 105°C/1hr : 0.5 % max  
Acid Value (mg/KOH gm) : 20 - 40  
pH (50% Alcohol Soln) : 4 - 7

**Application**

It is designed to work as a rubber tacifier giving good initial tack and tack retention. Tack is an important property for fabrication of rubber stocks. Tack or tackiness of the rubber compound is the property which allows two uncured or unvulcanised pieces of rubber to adhere to each other when brought into contact under moderate pressure. Building tack or green tack are the same and often used by the rubber processors to describe tackiness of the rubber compounds. The resin has little effect on cure. It is recommended wherever tenacious bonds are necessary, especially with synthetic rubber.

**Storage**

TECHNIC TR100 has no tendency to change properties during storage if kept in cool dry place in closed containers. TECHNIC TR 100 will retain its properties for at least 2 year.

**Solubility**

It can readily dissolved in Solvents and easily blended in the rubber stock.

**Recommended Dosage**

The dosage level of alkylphenolic tackifying resins depends upon the rubber compounds and their application. In general, these resins could be used in 2 to 10 phr level in SBR, BR, NBR and CR rubber compounds. With EPM or EPDM based compounds, a level of 5 to 10 phr level is recommended.

**Applications**

Alkylphenolic resins show excellent tack properties towards natural and synthetic rubbers. These resins could be used in the manufacture of tires, industrial hoses, conveyer belts, V-belts, rollers, rubber inner liners, wires and cables.

**Handling Precaution**

- Carry operations in open or under control exhaust area with respiratory protection
- Control dust formation.
- Keep container tightly closed.
- Keep away from naked flames
- Avoid inhalation of high concentration of dust.

**Packaging**

25 Kgs in Laminated Paper Bags.

**Shelf Life**

2 years from the date of manufacturing. Should store in cool and dry place.

**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. TWPL 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.

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