



# TECHNIC B22C

## TECHNICAL DATA SHEET

**Issue No**  
002/01

**Revision Date**  
01.06.2017

### Product Name

TECHNIC B22C

### Classification

Dry Bonding Agents.  
Styrenated Resorcinol Formaldehyde Resin  
Resorcinol Donor / Methylene Acceptor  
Formaldehyde, polymer with 1,3-benzenediol and ethenylbenzene

### Composition

Styrenated Resorcinol Formaldehyde Polymer

### Physical Properties

Form : Pastilles  
Colour : Dark Red - Brown  
Specific Gravity @ 25°C : 1.24 (Typical)

### Chemical Properties

Softening Point (oC) : 99 – 109  
PH (50% alcohol sol<sup>n</sup>) : 4.0 – 6.0  
Moisture Content : 0.7% max  
Ash Content @ 850°C/1hr : 0.1% max  
Free Resorcinol Content : 5% max

### Solubility

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

### Storage Properties

TECHNIC B22C is comparatively very less hygroscopic in comparison to other resorcinol formaldehyde resin. Although for best results it must be protected from exposure to relative humidity. The resin should be stored in a cool dry place. The resin is stable for one year in protected as per directions above.

### Processing Behavior

It is safe in processing.

### Recommended Dosage

Between 3 to 4 phr is normally recommended for the Dry Bonding System.

### Advantages

TECHNIC B22C is a reaction product of formaldehyde with resorcinol, resorcinol polymers and styrene. It is supplied in pastille form. It has low vapour pressure, thus, the fuming and weight loss that occur with processing resorcinol at temperatures above 150oC is substantially reduced with the usage of TECHNIC B22C.

### Technological Properties (Usage)

TECHNIC B22C can be used as a resorcinol component of the Dry Bonding system for adhesion of synthetic tyre cord and brass plated tyre cord to rubber. It offers a balanced combination of good adhesion and excellent flex fatigue resistance in conjunction with methylene donors like formaldehyde, Hexamethylenetetramine and Hexamethoxymethylolmelamine Resin through formation of an in – situ resin. The product contains nil formaldehyde.

### 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

### Packaging

Packed in 25 kg net weight HDPE laminated kraft paper bag.

### Shelf Life

The resin is stable for 2 (two) years from the date manufacturing. It should be stored under recommended conditions.

### Note:

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**TECHNO WAXCHEM PVT. LTD.**

3C, Hitech Chambers, 84/1B, Topsia Road(S), Kolkata – 700 046, WB, India

Tel: +91 33 2285 1278 / 1279, 4004 8093 / 88094

Fax: +91 33 2285 1280. Email – [info@twc.in](mailto:info@twc.in). URL – [www.twc.in](http://www.twc.in)