

**TECHNICAL DATA SHEET**

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

**Revision Date**  
**01.07.2020**

**Product Name**

TECHNIC B18S

**Classification**

Dry Bonding Agents.  
Resorcinol Formaldehyde Resin  
Resorcinol Donor / Methylene Acceptor  
Formaldehyde, Polymer with 1,3-benzenediol

**Composition**

Resorcinol Formaldehyde Polymer

**Physical Properties**

Form	: Pastilles
Colour	: Orange to Red Dark Brown
Specific Gravity @ 25°C	: 1.36 (Typical)

**Chemical Properties**

Softening Point (oC)	: 100 – 110
PH (50% aqueous soln)	: 4.0 – 6.0
Moisture Content	: 1.0% max
Ash Content @ 950°C/1hr	: 0.1% max
Free Resorcinol (by HPLC)	: 18% Max

**Solubility**

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

**Storage Properties**

TECHNIC B18S is hygroscopic and 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.

**Processing Behavior**

It is safe in processing.

**Recommended Dosage**

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

**Advantages**

TECHNIC B18S is a reaction product of formaldehyde with resorcinol and resorcinol polymers. 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 B18S.

**Technological Properties (Usage)**

Technic B18S 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, Hexa methylene Tetramine (HMT) and Hexa Methoxy Methylol Melamine (HMMM) 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. Washing with plenty of water is advised to be followed by a medical check-up. Refer to 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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