

Chemistry. Pure. Efficient.

Purmol[™] 3ST Paste – Moisture Scavenger

Moisture scavenger for solvent-free polyurethane systems

Applications

Purmol 3ST Paste is a moisture scavenger that is ideally suited for use in solvent-free and low VOC polyurethane formulations. It is comprised of Purmol 3ST powder dispersed in castor oil. Purmol 3ST Paste can eliminate outgassing and foaming issues related to trace amounts of moisture that may be present in polyurethane systems. Additionally, the castor oil is a natural oil polyol and serves as a reactive diluent. Purmol 3ST Paste is also dust-free and easily incorporated into formulations.



Purmol 3ST Paste is a vital component in solvent-free 2K polyurethane and polyurea systems:

- Floor coatings
- Track and sport field surfaces
- Concrete joint and crack repair
- Steel pipe protective coatings and linings
- Spray-in truck bed linings

Components


Purmol 3ST Powder

- Pure synthetic A-type zeolite powder
- Uniform ~3 angstrom pore size opening
- Adsorbs small polar molecules (<3 angstroms) such as H₂O

Castor Oil

- Natural oil polyol
 - Comprised of ~90% ricinoleic acid
 - Accessible -OH groups participate in formation of polyurethane linkage
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Molecular Sieve Typical Properties	Value	Unit
Water adsorption Capacity, 50%rH, 20 °C	≥22	% w/w
Particle size, scratches, EN ISO 1524 	≤20	μm
Particle size, points, EN ISO 1524	≤30	μm


Paste Typical Properties	Value	Unit
Viscosity, ISO 2555, 20 °C	≤15,000	mPas
Potlife	≥60	min
Solid Content	45-55	%



Recommendations for use

- Mix thoroughly before use
- Addition of 5-10% based on weight

Packaging types

- 33L plastic bucket
- 210L steel drum (by request) 
- 1000L IBC tote (by request)

Shelf life

One year from the date of manufacturing

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