

PURMOL™ 3ST PASTE

Technical Datasheet



Purmol 3ST Paste is made of Purmol molecular sieve and castor oil. It includes a synthetic 3A zeolite with a pore size of approximately 3 Ångströms (0.32 nm). This allows for selective adsorption of molecules based on molecular size and polarity. In practice, Purmol adsorbs water but not solvents, resins, or pigments

Purmol products are excellent moisture scavengers for polyurethane (PUR) coatings, adhesives, sealants and elastomers. It works to eliminate foaming due to trace amounts of moisture in polyurethane and polyurea formulations. The paste form is often recommended in solvent-free two-component polyurethane systems where a faster incorporation of the Purmol is desired.

Purmol 3ST Paste is easier to handle and incorporate than molecular sieve powder. Additionally, the dispersion in castor oil protects the molecular sieve powder from atmospheric moisture and any potential contamination when exposed. This improves the dispersion fineness and activity during usage. The paste is a homogenized mixture and is ideal for creating a dust-free environment, which is especially useful during material processing.

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

Typical Properties – molecular sieve	Value	Unit
Water Adsorption Capacity, 50%rH, 20°C, 24hrs	≥22	% w/w
Particle size, scratches, EN ISO 1524	≤20	µm
Particle size, points, EN ISO 1524	≤30	µm

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Additional Information

Generic Names

Molecular Sieve 3A, castor oil

Packaging

IBC of 1,000 L, Steel drums of 210 L, or 33 L plastic bucket

Storage

When stored unopened in original packaging in cool, dry conditions, the product has a shelf life of one year. Stirring the Purmol paste before usage is recommended to ensure a homogenized mixture for the intended usage.

Safety

Review SDS

CAS No

1318-02-1*

EINECS No

215-283-8*

REACH No

01-2119429034-49*

*In reference to the molecular sieve

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