



Shandong TianSheng Cellulose Corp.,Ltd.

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TS[®] R5150

HPMC with enhanced properties

Technical Data Sheet

Application scope

TS[®] R5150 / R5150S cellulose ether is a kind of non-ionic, water-soluble polymer powder that is developed to improve working ability of dry mixed mortars such as:

- Thermal insulation mortar
 - Tile adhesive
- Masonry mortar and troweling mortar
 - Gypsum plaster
- Special applications of mortar and concrete

Recommended dosage of total dry mixed mortar

- 0.20-0.45%

Typical performance

- ✓ Good wetting and troweling ability
- ✓ Moderate slip resistance
- ✓ High water retention
- ✓ Good compatibility with other additives

Storage and delivery

TS[®] R5150 / R5150S cellulose ether belongs to hygroscopic and hydrophilic polymer powder, so it should be stored and delivered under dry and clean conditions in its original package form and away from heat. After opening the package for production, it must be resealed tightly to avoid ingress of moisture.

Shelf life

At least 2 years under cool and dry condition. For material storage over shelf life, quality confirmation test should be done before use.

Product safety

According to EU legislation on dangerous substances and preparations, TS[®]R5150 / R5150S cellulose ether does not belong to hazardous material. Further information on safety aspects is given in Material Safety Data Sheet.

Grade	R5150 / R5150S ¹
Chemical name	Hydroxypropyl Methyl Cellulose Ether (HPMC)

Typical properties

All of data, suggestions, and proposals presented here are based on our current knowledge and experience in raw materials and application technologies, which do exclude the responsibility of users to scrutinize the quality of all received products. Because we are out of control of quality in users' raw materials, production and application methods, service conditions as well as local standards, our suggestions and proposals do not imply any guarantee and promise for end product quality. The users should be responsible for formulation adjustment according to real conditions to meet project quality requirements.

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Appearance	White or off-white powder
Bulk density (kg/m ³)	250-550
Particle size (passing 0.212 mm)	≥ 92%
pH value	5.0-9.0
Moisture content (max, %)	≤6%
Viscosity (mPa·s)	55,000-65,000 ² /135,000-180,000 ³

Note

1) S means surface treatment.

2) 2% solution, BrookfieldRV,20rpm, 20°C.

3) Viscosity > 100,000mPa·s is tested with 1% water solution@20°C by NDJ-1 viscometer according to JC/T2190-2013, and then converted with an experience formula into the viscosity of 2% solution.

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