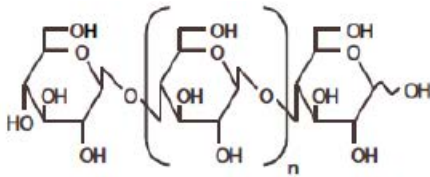


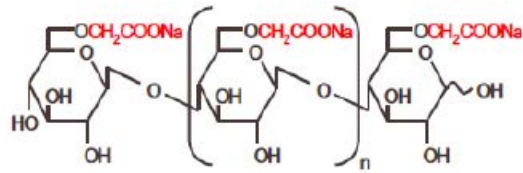


## Water-insoluble sodium carboxymethyl cellulose Sunrose® SLD Series - Moisture absorption/desorption properties -

Sunrose® is a carboxymethyl cellulose (CMC) produced by etherification of natural cellulose.



PULP (Cellulose)



Sodium carboxymethyl cellulose (CMC-Na)

### Characteristics of Sunrose® SLD Series

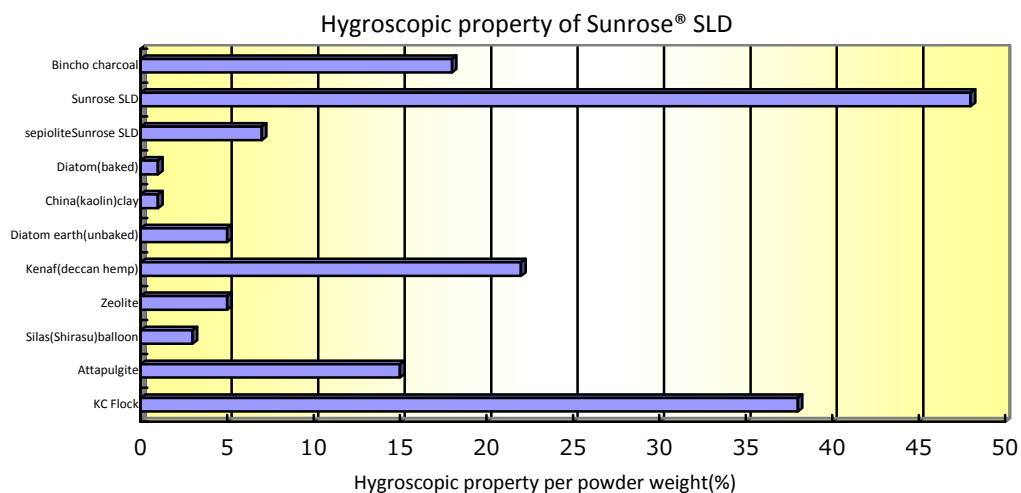
SLD Series **swells** in the presence of both cold and warm water, **dissolves slightly** but not completely, and develops **mild viscosity**.

- It offers **superb dispersing stability in water**.
- It offers **excellent water absorption and retention**.

### Applications for paint wall materials

- SLD Series ensures excellent **absorption and desorption of moisture**.
- SLD makes plastering much easier, facilitating smooth trowel transport.

### Hygroscopic property of Sunrose® SLD Series

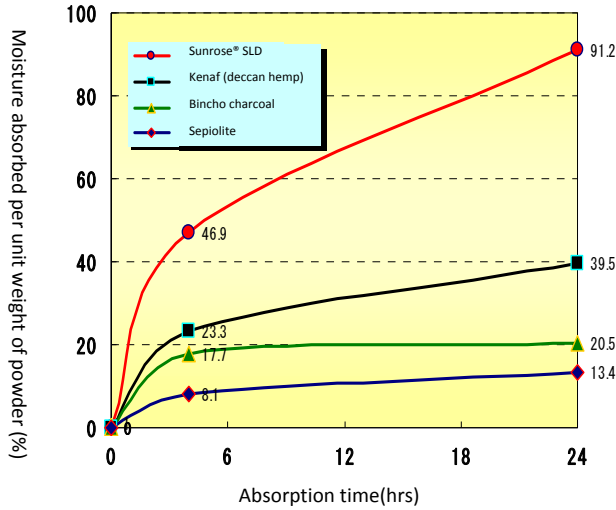


#### Evaluation of hygroscopic property

- Prepare test sheet for different powder types listed in the graph by coating a resin sheet with a solution of the powder in a fixed amount of water, powdered emulsion, and CMC.
- Dry the coated resin sheet at 22% humidity then let it absorb moisture at 100% humidity for 4 hours to calculate the hygroscopic volume per powder weight.



### Hygroscopic curve



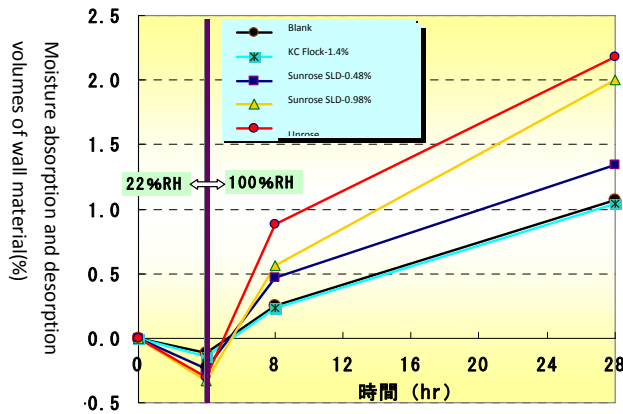
#### Evaluation of hygroscopic property

Prepare test specimens for different powder types listed in the graph by coating a resin sheet with a solution of the powder in a fixed amount of water, powdered emulsion, and CMC.

Dry the coated resin sheet at 22% humidity then let it absorb moisture at 100% humidity for four hours to calculate the hygroscopic volume per powder weight.

### Moisture absorption and desorption properties of Sunrose® SLD

Moisture absorption and desorption properties of plaster-type wall materials mixed with Sunrose® SLD



#### Evaluation of moisture absorption/desorption with plaster-type wall materials

1) Prepare test sheet for different powder types listed in the graph by coating a resin sheet with solution that is mixed with a certain amount of powder, water, powdered emulsion, and CMC.

2) While maintaining standard weight at 60% humidity, leave the coated resin sheet at 22% humidity for four hours and then expose it to 100% humidity while measuring the volume of moisture absorbed over time. (Standard weight is measured at 60% humidity.)

### Water absorption property of Sunrose® SLD

For more details on our products, please contact:

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