

# Functional Coating Agent for Building Materials

## Applications

- Coating agent for the surface protection of thin paper sheets (general paper, reinforced paper, and impregnated paper) used in building materials, and for imparting designability.
- Coating agent for the surface protection of films (e.g., olefin, PET, and PVC) used for building materials, and for imparting designability.

## Characteristics

- A top coating agent for building materials, available for gravure printing machine.
- We offer products tailored to various substrates (for paper and film) and specific physical property requirements.

## Representative Products

Product name	Substrate	Characteristic
U-45	Thin paper	For general purpose
Power	Thin paper	Scratch resistance
FRS	Thin paper	Abrasion resistance
For recoating	Thin paper	Re-coatability
RUB203	Thin paper	Soft feel
U-273	Film	For general purpose
F Power	Film	Scratch resistance
6083NK	Film	High adhesion
RUB273	Film	Soft feel
ANV additive	—	Antiviral properties

We offer both matte and gloss types for gloss control.

## Evaluation Results

### ■ Examples of physical property test

(Substance: 30g reinforced paper, our matting agent: coating amount of 6g/m<sup>2</sup> on a dry basis)

Test item	Condition	Criteria	Result
Gloss	Gloss meter	60° gloss value	2.7
Steel wool resistance	Load : 100g/cm <sup>2</sup> 3 reciprocating rotation	Not scratched	○
	Load : 100g/cm <sup>2</sup> 10 reciprocating rotation	Not scratched	○-
Cellophane tape resistance	Stuck on at 50°C for 1 day	No peeling of the colored pattern	○
	Peeling in the same area	No peeling of the colored pattern	10 times<
JAS Abrasion Test C	Abrasion wheel CS-17 Total load 1,000g	Colored pattern remains more than 50% after more than 100 rotations.	200 times<
		Judgement	Passed
JAS Acid-Fastness Test	Drop 5% acetic acid, and leave it covered with a cover glass for 6 hrs	No significant change is found.	Passed
JAS Alkali-Fastness Test	Drop 1% sodium carbonate, and leave it covered with a cover glass for 6 hrs	No significant change is found.	Passed
JAS Thinner Resistance Test	Drop Thinner, and leave it covered with a cover glass for 6 hrs	No significant change is found.	Passed
JAS Stain Resistance Test A	Draw a line with magic ink, and wipe it off after 4 hrs	No significant change is found.	Passed
	Draw a line with red crayon, and wipe it off after 4 hrs	No significant change is found.	Passed
	Draw a line with water-based blue ink and wipe it off after 4 hrs	No significant change is found.	Passed

○:Not scratched,○- :Few scratched

※The above data represents our internal experimental data and is not guaranteed.