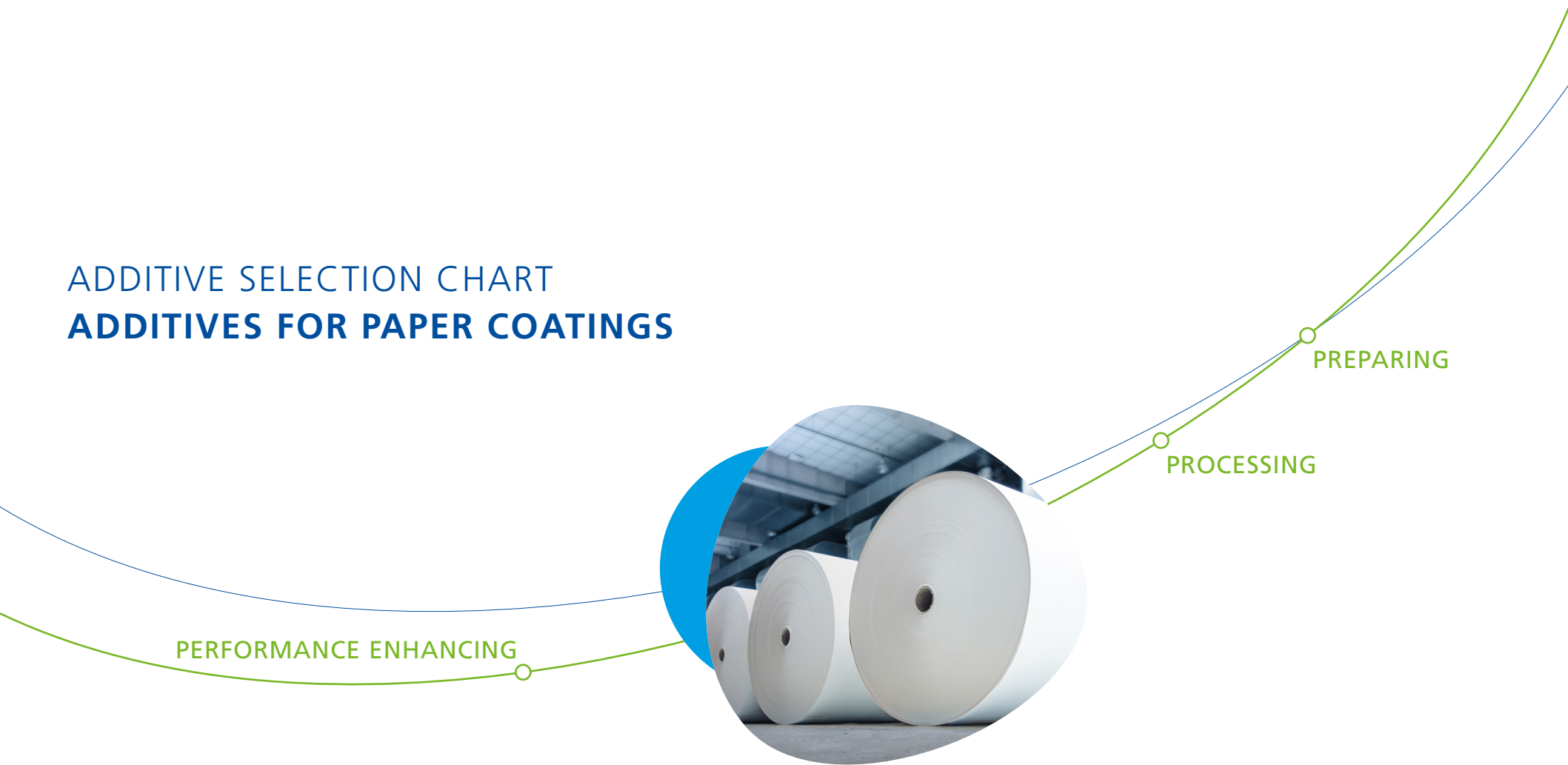


ADDITIVE SELECTION CHART ADDITIVES FOR PAPER COATINGS





Coating colour preparation

Wetting and dispersing

| Wetting and dispersing | | | | | | Defoamers | | Rheology |
|---------------------------------------------------------|----------------------------------|------------------------------------------------------------------------|----------------------------------|----------------|-------------------------------|------------------------|---------------------------------------|---------------|
| Calcium carbonate | Kaolin | Titanium dioxide | Silica | Activated clay | Talc | Silicone-containing | Silicone-free | Anti-settling |
| DISPERBYK-190 BF* ● DISPERBYK-199 BF* ○ BYK-154 ○ | DISPERBYK-199 BF* ● BYK-154 ○ | BYK-154 ● DISPERBYK-102 ● DISPERBYK-180 ● DISPERBYK-199 BF* ○ | DISPERBYK-199 BF* ● BYK-154 ○ | BYK-154 ● | DISPERBYK-2010 ● BYK-154 ○ | BYK-022 ● BYK-025 ● | BYK-1745 ● BYK-012 ○ BYK-1640 ○ | OPTIGEL-WX ● |

● First recommendation ○ Second recommendation *Biocide-free version: Originals are still available.

Improved coating process

Rheology modifiers

| Rheology modifiers | | | Surface additives | | Defoamers |
|-------------------------------------------------------------------|---------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------|----------------------------------------------|--------------------------------------|
| High shear thickener | Low shear thickener | Extensional viscosity | Coating levelling | Curtain stability | Microfoam |
| RHEOBYK-L 1400 VF ● RHEOBYK-T 1010 VF ● RHEOBYK-T 1000 VF ○ | RHEOBYK-H 7500 VF ● RHEOBYK-HV 80 ● RHEOBYK-H 3300 VF ○ | RHEOBYK-L 1400 VF ● RHEOBYK-T 1010 VF ● RHEOBYK-T 1000 VF ○ | BYK-3410 ● BYK-DYNWET 800 ● BYK-348 ○ BYK-3560 ○ | BYK-3400 ● BYK-3410 ● BYK-DYNWET 800 ○ | BYK-019 ● BYK-024 ● BYK-1780 ○ |

● First recommendation ○ Second recommendation



Paper surface improvement

Surface additives

Surface defects

BYK-3410 ●
BYK-DYNWET 800 ●

Printability

BYK-3410 ●
BYK-DYNWET 800 ●

Wax additives

Rub/Scratch resistance

AQUACER 531 ●
AQUAMAT 272 N ●
AQUACER 2500 ○

Slip control/Blocking

AQUACER 2500 ●
AQUACER 2650 ●
AQUACER 539 ○
AQUACER 1510 ○

Print uniformity

AQUACER 539 ●
AQUACER 2500 ●
AQUACER 531 ○

● First recommendation ○ Second recommendation

Functional paper surfaces

Thermal image transfer

Screen

AQUACER 1510 ●
AQUACER 2700 ●

Offset

AQUACER 1550 R ●
AQUACER 2700 ●
AQUACER 1510 ○
BYK-3560 ○

Inkjet

FULACOLOR-XW ●

Carbonless copy

FULACOLOR-XW ●
FULACOLOR-SR ○

Anti-static

LAPONITE-JS ●
LAPONITE-SL 25 ●
LAPONITE-S 482 ○

● First recommendation ○ Second recommendation

Barrier coatings

OTR

CLOISITE-Na+ ●
HORDAMER PE 03 ●

MVTR

AQUACER 497 ●
AQUACER 561 ●
AQUACER 1061 ○

Liquid (aqueous)

AQUACER 497 ●
AQUACER 1061 ●
AQUACER 527 ○
AQUACER 561 ○

OGR

AQUACER 497 ●
AQUACER 1061 ●

Heat sealing

Paper/Plastic film

AQUACER 507 ●
AQUACER 1061 ●
HORDAMER PE 02 ○

Paper/Paper

AQUACER 1061 ●

● First recommendation ○ Second recommendation

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