

# High Performance Products

## -PRODUCT SELECTION GUIDE-

Chemigate renewed Product Range covers a wide area of functionalities. It combines the old, well proofed technologies with new innovations and production processes. Our strong competence in the field of starch modification and paper chemicals is a vital part of our offerings. Support will be given to performance optimization and to ensure an effective, easy and safe application. Almost all our products are FDA and BfR approved.

FUNCTIONAL AREA	BRAND NAME	DELIVERY FORM	RUNNABILITY	STRENGTH	PRINTABILITY	PRINTED IMAGE	OTHER BENEFITS	APPLICATION AREA
Strength polymers	<b>PrimeBOND</b>	Ready-to-use liquid	Boosting the impact of other chemicals, improved retention & dewatering	Improved internal bond and surface strength	Reduced dusting, & linting		Boosting the impact and retention of spray starch, excellent ASA-emulsifier, increases bulk	All grades, especially for board grades with high bulk requirements
Retention boosters	<b>PrimeRUN</b>	Ready-to-use liquid	improved retention & dewatering	Improved strength				Especially for board grades
Fixatives	<b>Raifix</b>	Ready-to-use liquid	Fixation of anionic trash, reduced deposits	Boosting the impact of wet end starch				All paper and board grades
Sizing agents	<b>PrimeSIZE</b>	Ready-to-use liquid			Improved dimension stability	Reduced ink penetration	Better moisture resistance, reduced liquid penetration, lactic acid resistance	Especially for packaging and liquid packaging board grades
Printability polymers	<b>PrimePRINT</b>	Ready-to-use liquid	Improved runnability due to reduced need of stock sizing	Improved surface strength	Increased hydrophobicity, improved dimension stability, reduced dusting & linting	Reduced ink penetration & print through, improved registration, color density & sharpness		All printing & writing grades
Coating binders	<b>Tarantula</b>	Dry or slurry (requires cooking)	Improved rheology & water retention, dispersing effect	Binding strength	Higher print & delta gloss for matt paper grades	Acts as carrier for optical brightening agents	Improved stiffness, reduced need of latex & rheology modifiers, less white pitch	For all printing & writing grades, board and paper
Surface sizing starches	<b>Raisamyl</b>	Dry or slurry (requires cooking)		Improved surface strength	Reduced dusting & linting, reduced wessel picking and lower porosity	Acts as carrier for optical brightening agents or other surface additives	Improved stiffness	All printing & writing and release grades
Wet end starches	<b>Raisamyl</b>	Dry or slurry (requires cooking)	Improved retention, dewatering and formation	Improved internal bond strength	Reduced dusting & linting		Improved stiffness and sizing effectiveness	All paper and board grades
	<b>Classic</b>							When premium purity is requested
Spray starches	<b>Raisamyl</b>	Dry or slurry		Improved plybond, burst & ring crush strength				All multilayer board and core board grades