

## PAPER CHEMICALS KOREA

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Technical Information

# SPG

## SURFACE STRENGTH & PRINTABILITY AGENT

### Mode of action

**SPG** forms the strong film on the surface of paper during paper drying process, which enables to improve the mechanical properties such as burst-strength, pick-strength, surface strength (Dennison test) as well as the printability through superior surface properties such as smoothness, porosity, dimension stability, etc. When the base paper is coated by **SPG**, coating property is improved. As a result, it is possible to make an improvement of the coated paper quality and coater runnability. **SPG** can be helpful for saving other additives such as insolubilizer, PVA, CMC, etc.

### Characteristics

Chemical Description	Aqueous Solution of Acrylic Copolymer
Appearance	Clear yellowish liquid
Solid	13.0 ± 1.0% (at 105°C, 2hrs)
Specific Gravity	1.05 ± 0.05 (at 25°C)
pH Value	8.0 ± 1.0 (at 25°C)
Viscosity	Under 7,000 cPs (at 25°C, Brookfield 60 rpm)
Ionic Charge	Anionic
Shelf Life for Storage	12 months (Original sealed packaging & at room temperature)

### Applications

**SPG** can be applied in all conventional size-press or film press. In combination with starch, **SPG** should be added after preparation of starch. Dosage of the **SPG** depends on the purpose of the usage, but the least dosage of **SPG** is 3.0 kgs (wet base of product) / paper ton

### Safety

**SPG** does not exert any harmful effects on the health when it is used properly. The attention for handling and the precautions in details are given in MSDS.