

CP88-LVEX

High Performance Glue Additive

Improved **green tackiness**, **water resistance**, and **higher corrugator productivity**.



**GREEN
TACKINESS**



**WATER
RESISTANCE**



**HIGHER
SPEEDS**



**LESS
WASTE**



DOR GROUP

Helping manufacturers achieve **stronger products**
and more **sustainable operations**.

CP88-LVEX

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High performance glue additive designed for green tackiness, bonding safety and wet-strength resistance.



Product profile

- A blend of synthetic polymers designed to produce early green tackiness and wet-strength resistance.
- Film-forming polymers with a high concentration of polar chemical groups that cling to board cellulose.
- Stronger bonds support higher running speeds, less waste and faster converting.
- Improves **water resistance** by helping starch glue maintain board integrity in wet or humid conditions.



Green tackiness

Improves wet glue grip at early bonding stages.



Waterproofing performance

Supports water resistance for corrugated board exposed to moisture.



Machine speed increase

Helps enable higher corrugator speeds and improved line productivity.



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Corrugated Board Strength

Corrugated board is a construction whose strength depends on its bonding points.

The bonding quality determines the final strength of the corrugated board.

The strength depends on



Type of starch



Glue formulation



Temperature



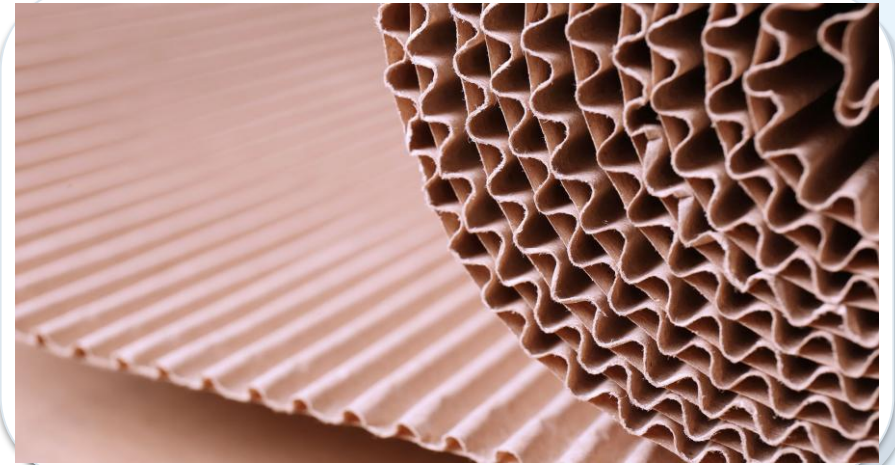
Paper quality



Glue penetration



Running speed



Bonding points

Every flute-to-liner contact point contributes to board performance and conversion reliability.

Typical Corrugator Performance

Common performance gaps create room for higher productivity and lower operating cost.



90%

Factories not reaching full capacity



175 m/min

Average agricultural board grade speed



240 m/min

Average standard board grade speed



3.5%

Average waste without trim



8–9 gr/m²

Average starch glue consumption, C-flute

Why settle for average? More machine speed, less glue consumption and less waste are possible with CP88-LVEX.



Opportunity

Higher glue tackiness and better process control can unlock speed, reduce waste and lower starch consumption.

Case Studies Where CP88-LVEX Was Used

Production examples with capacity of 100,000,000 m².

Case Study 1



175 → 225
m/min
Ave. line speed



3.5 → 2.7%
Waste
Waste without trim



9.0 → 6.5 gr/m²
starch glue
Starch glue consumption

Case Study 2



238 → 250
m/min
Ave. line speed



4.2 → 3.5%
Waste
Waste without trim



5.4 → 5.0 gr/m²
starch glue
Starch glue consumption



Outcome focus

Speed increase, waste reduction and lower starch consumption strengthen the business case.

CP88-LH5EX

Water Resistance to Starch Glue

Water-resistant corrugated board is required across industries exposed to **wet or humid environments** — from plant to consumer.

APPLICATION AREAS

- Foods and Beverages
- Fruits and vegetables
- Frozen foods
- Flower packaging
- Tobacco
- Hi-Tech consumer products
- High humidity areas
- Outdoor storage



 WATER RESISTANT PACKAGING



How Water Resistance Is Achieved

CP88-LVEX converts starch adhesive into a cured, crosslinked network that is water resistant.



Mechanism

- Starch glue is hygroscopic and weakens in humid environments until board separation may occur.
- CP88-LVEX is a ketone aldehyde thermosetting resin added to starch adhesive.
- Under heat, the starch and resin cure and crosslink to form an infusible, insoluble 3D polymer network.
- Optimum water resistance results are achieved after a 4–24 hour stocking period.



Curing + Crosslinking

Heat activates curing and creates a water-resistant adhesive/resin network.

What CP88-LVEX Can Actually Do

Performance support across bonding, speed, water resistance and operational efficiency.



Bonding safety

Reinforces glue bonding properties.



Higher speeds

Improves bonding at higher speeds and challenging papers.



Water resistance

Provides water resistance to starch glue.



Bond strength

Supports board strength.



Drying parameters

Helps adjust corrugator drying to support speed and quality.



Gluing gaps

Supports lower starch and energy consumption.



Less waste

Helps reduce corrugator waste.



Faster converting

Reduces stacking time before converting.

