

CP88-PL2

High Performance Glue Additive for Waterproofing



Improved **water resistance** and reliable **corrugated-board performance**

APPLICATION:



Use as an additive
to **starch glue**

OR



Use in OBM
(**One Bag Mix**)
preparation



**WATER
RESISTANCE**



**EASY INTEGRATION
INTO PRODUCTION**



**SUSTAINABLE &
ENVIRONMENTALLY
FRIENDLY**



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Helping manufacturers achieve
stronger products and more
sustainable operations.



CP88-PL2

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



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



FRUITS & VEGETABLES



REFRIGERATED GOODS



FLOWER PACKAGING



HI-TECH CONSUMER PRODUCTS



WATER RESISTANT PACKAGING

CP88-PL2 enhances water resistance of starch glue by forming a **crosslinked polymer network** during heat curing.

Water Resistance Mechanism in Starch Glue

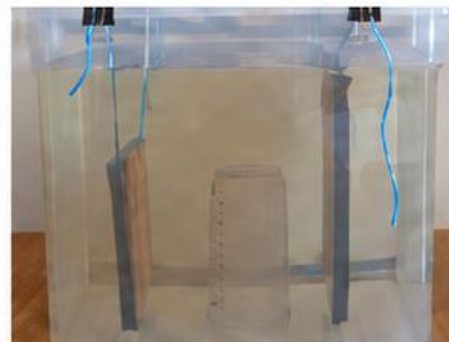
CP88-PL2 helps starch adhesive resist water by forming a **crosslinked polymer network** during heat curing.

KEY TAKEAWAYS

- Humidity weakens starch glue and can lead to board separation.
- Thermosetting resin crosslinks with starch under heat.
- Curing creates an infusible, insoluble 3D polymer network.
- Optimum water resistance after a 4–24 hr stocking period.



 CORRUGATED BOARD STRUCTURE



 WATER RESISTANCE TEST

 HEAT CURING + CROSSLINKING



Crosslinking converts starch adhesive + resin into a **3D insoluble network** that supports water resistance.

FDA Compliance & Normal Usage



Conforms to FDA

The main ingredients of CP-88/PL2 are listed by the FDA under 21 CFR §176.170 and 21 CFR §175.300. The BfR lists the components of CP-88/PL2 under chapter XXXVI.



Normal Usage

- Add to ready-for-use, caustic-catalyzed starch-based adhesives.
- Recommended dosage: 1.0–1.2% of the total liquid starch glue (10–12 kg per 1000 kg liquid starch glue).
- Developed to bring alkaline corrugating adhesives to maximum water resistance, with no dependence on the adhesive cooking method.



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Contact:
Moris@dorchemicals.com

Ideal additive for OBM with Waterproofing performance



Dosage for OBM

Add **CP88-PL2** at a dosage of **4–5%** of the OBM (40–50 kg CP88-PL2 per 1000 kg OBM).



Easy to dose and mix –
designed for One Bag Mix
(OBM) preparation.



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