

# Polychem Renu

## Hydration Stabilizing Admixture For Concrete

### Polychem Renu

is a ready-to-use liquid solution manufactured to control the hydration process in Portland cement concretes and concrete wash water. This advanced set retarder coats the hydrating cement particles in the concrete and wash water, resulting in the suspension of the hydration chemical reaction.

### Polychem Renu

maintains the plasticity, slump, & temperature and postpones the set of the concrete for a predictable period of time.

Eventually, the **Polychem Renu** dosage is chemically consumed and normal hydration continues.

## ADVANTAGES

- Concrete treated with **Polychem Renu** will produce normal setting characteristics and improved ultimate compressive strength performance over conventional concrete
- Provides a quality, profitable and reliable method to treat returned concrete for reuse or hold (for a few hours) and then reuse the same day
- Reduces expensive disposal costs associated with returned concrete and concrete wash water
- Allows reuse of concrete wash water overnight or over a weekend in many situations
- Reduces the amount of concrete wash water needed and truck mixer washouts
- Permits long haul applications for extended haul times without slump loss
- Provides extended truck discharge times
- Controls peak temperature rise in the concrete

- Reduces truck mixer/central mixer washout and washout water

## SPECIFICATIONS

Conforms to:

ASTM C-494 Types B and D  
AASHTO M-194 Types B and D  
CRD C-87 Types B and D

## COMPATIBILITY

**Polychem Renu** is compatible with all types of Portland Cement, class C and F flyash, silica fume, fibers, and approved air entraining and water-reducing admixtures. For best results, each admixture must be introduced separately into the concrete mix.

## PACKAGING

55-gallon drums, 275-gallon totes, and bulk delivery.

## SHELF LIFE

18 months

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### DOSAGE RATES

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The recommended dosage of **Polychem Renu**, for treatment of concrete wash water, is 16 to 64ozs. (473 to 1893 mL) per truck. The specific dosage will depend on ambient temperature and desired stabilization period. The table listed below provides the specific dosages for use with Type 1 cement.

Wash Water Stabilization Dosages (OZ./Truck)		
Stabilization Period		
Ambient Temperatures	Overnight	Over The Weekend
30°F to 50°F	24 ozs.	48 ozs.
51°F to 75°F	32 ozs.	64 ozs.
76°F to 99°F	40 ozs.	80 ozs.

Concrete wash water, treated with **Polychem Renu**, can be redosed once if the scheduling conflicts arise to extend the use of wash water as mix water.

The recommended dosage of **Polychem Renu** for stabilization of returned concrete is 1 to 35 ounces per 100lbs. (65 to 2283mL per 100 kg) of Portland cement. The exact dosage will depend on the age of the returned concrete, returned concrete temperature, admixtures used, stabilization time period, specific materials involved, and the mix design incorporated.

The recommended dosage of **Polychem Renu** for long haul applications and extended truck discharge times is 1 to 12ozs. per 100lbs (65 to 783 mL per 100 kg) of Portland cement. The exact dosage rate will depend on additional plastic time required, fresh concrete temperature, admixtures used, and specific materials involved.

Contact your local GRT technical service representative for recommended dosages and for assistance when using this product.

### STORAGE

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**Polychem Renu** may freeze at temperatures below 35°F (2°C). Although freezing does not harm **Polychem Renu**, precautions should be taken to protect it from freezing. If it should freeze, thaw at 45°F and reconstitute with mechanical agitation.

**DO NOT USE PRESSURIZED AIR FOR AGITATION.**