

# CPD® NON-SHRINK GROUT PRE-MIX (H.E.S - High Early Strength)

## DESCRIPTION

CPD® Non-Shrink Grout Pre-Mix (High Early Strength) is used where a rapid strength gain structural grout is required. This is a pre-blended cement based grout manufactured under strict quality control standards for consistent uniform quality. Upon setting the grout remains volume stable for permanent long term uniform structural support.

## WHERE TO USE

Used for grouting of: compressors, pumps, generators, turbines, engines, etc. requiring high strength and vibration dampening. Also use for anchor bolts, sole plates, dowels, tanks, guard rails etc., as well as, for paper machines, rolling mills, ball mills and for grouting industrial equipment in general. Also used for grouting bridge bearing seats, power transmission towers and structural steel columns.

## BENEFITS

- easy to place consistency
- high early strength - high ultimate strength
- no bleed - can be vibrated
- non-metallic/no rusting
- unaffected by freeze-thaw cycling/can be used for both interior and exterior grouting
- contains no chlorides or reactive aggregates

## PROPERTIES

Compressive Strength (ASTM C109-91 Modified) 23°C (73°F)	
4L/25kg. Bag (Flowable)	
1 day .....	55 MPa(7975psi)
2 days.....	67 MPa(9715psi)
7 days .....	78 MPa(11310psi)
28 days.....	87 MPa(12615psi)
Set Time: 4L/25kg (1.06 U.S. gal/55lb)	
4-5 hours @ 23°C (73°F)	

The above information is representative of actual production runs. Independent test results may vary from the above by approximately ± 10%.

## APPLICATION

All surfaces that will be in contact with the grout must be clean and free of grease, oil, standing water, laitance, loose material or any other contaminant that could impair substrate bond. Prior to grouting, foundation concrete should be roughened, cleaned and thoroughly wetted down for 12 hours. Free standing water should be blown clear just prior to grouting. Use only as much water as is consistent with flowability required. Mix thoroughly and place within one hour. Keep grout agitated in mixer at all times. Vibration is acceptable but avoid excessive use of vibrators. As soon as grout sets, cure exposed surfaces with CPD® Acrylic Cure & Seal or wet burlap. Ideal grouting temperature 10°C (50°F) to 25°C (77°F). Cooler temperatures will retard the rate of strength gain while higher temperatures will accelerate strength gain.

## Mix Designs

Flowable - 4.0L water per 25 kg (1.06 U.S. gal/55lb).  
**Note:** Do not exceed 4.0L (1.06 U.S. gal) of water per 25 kg (55 lb) bag of grout. Use only potable water for mixing grout.

## LIMITATIONS

Minimum grout depth is 25mm (1"). Extension of grout with aggregate will reduce flow and is generally only acceptable with large volume placements. Use washed and dry pea gravel or 12mm crushed stone for extending the grout. Aggregate size should not exceed 25% of grout depth.

- do not place grout where service temperatures exceed 160°C (320°F)
- do not place grout where exposure to strong acids or alkalis is evident
- do not place grout where temperatures are below 4.4°C (40°F) or above 32°C (90°F)

## COVERAGE

0.013 m<sup>3</sup> (0.46 ft<sup>3</sup>) per 25 kg (55 lb) bag at the maximum 4L (1.06 U.S. gal) water content.

## STANDARDS

Formulated to comply with U.S. Corps of Engineers CRD-C621-92 and ASTM 1107-91.

## **PACKAGING**

25 kg. (55 lb) multi-wall bag.

## **STORAGE**

May be stored short term under tarp on pallets as long as the product is kept dry. Dry heated warehouse storage is recommended for extended storage.

## **SHELF LIFE**

One year from the date of manufacture when stored in original, unopened package and under normal warehouse conditions.

## **SAFETY PRECAUTIONS**

Consult Material Safety Data Sheet ( M.S.D.S.) for specific instructions. MSDS # 18.

## **WARRANTY**

The recommendations made and the information herein is based on our own and independent laboratory experience, and is believed to be accurate under controlled conditions. However, no warranty or guarantee of accuracy is made because we cannot cover every possible application of product nor anticipate every variation encountered in weather conditions, job-conditions, methods used and types of surfaces on which the product is applied. The users shall make their own tests to determine the suitability of such products for any particular purpose.

CPD® makes no warranties with respect to this product, expressed or implied, without limitation, the implied warranties of merchantability or fitness for a particular purpose.

CPD®'s liability shall be limited in all events to supplying sufficient product to re-treat and/or repair the specific area to which CPD® product has been applied. CPD® reserves the right to have the true cause of any difficulty determined by accepted test methods. CPD® shall have no other liability, including liability for incidental, consequential or resultant damages, however caused, whether due to breach of warranty, negligence, or strict liability.

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