

TECHNICAL DATA

DESCRIPTION: **HP Construction Grout** is a very fast setting, high early strength, non-shrinking grout. Utilizing the latest in fast setting cement chemistry, **HP Construction Grout** yields a flowable, non-shrink grout with structural strength less than 3 hours after mixing. Special admixtures give **HP Construction Grout** exceptional durability. **HP Construction Grout** can be mixed from a dry pack to flowable consistency.

USE ON: Tunnel cavities, machine plates, anchoring systems and cavity filling

- ADVANTAGES:**
- Very fast setting
 - Excellent compressive and bond strength
 - High early strength
 - Excellent bond to concrete substrates
 - Easy placement by hand or pump
 - Expansive
 - Durable
 - Formulated to inhibit alkali silica

	3 HOURS	6 HOURS	1 DAYS	7 DAYS	28 DAYS
Chloride Permeability	< 1000 Coulombs				
Compressive Strength (ASTM C 109 Modified)	2500 psi (17.2 MPa)	3500 psi (24.13 MPa)	4300 psi (29.4 MPa)	6800 psi 46.57 (MPa)	7800 psi (53.4 MPa)
Flexural Strength (ASTM C 293)	500 psi (3.4 MPa)	650 psi (4.5 MPa)	900 psi (6.2 MPa)	1000 psi (6.9 MPa)	1200 psi (8.3 MPa)
Fluid 192 ounces/80 lb bag	1500 psi	4000 psi	6800 psi		
Set Times (ASTM C 266)			Initial 29 min	Final 45 min	
Freeze Thaw Resistance (ASTM C 666)	99.2% @ 300 cycles				
Length Time	+ .01 %				
Yield	50 lb bag = .42 ft ³				

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MIXING:

For each 50 lb bag of **HP Construction Grout**, add up to 110 to 115 ounces of potable water. In a clean, appropriate, mechanical mixer add 75% of pre-measured water. With the mixer operating, add the **HP Construction Grout**. Add remaining water as needed to achieve the desired consistency. Continue to mix until a homogeneous consistency has been achieved. Do not add additional water and do not mix more than three minutes. Materials should be continually re-circulated prior to placement to avoid thickening and settlement. Do not over mix. Should small quantities be required, be sure to proportion mix and water accordingly.

LIMITATIONS:

HP Construction Grout should be used when ambient temperatures are at 40°F (4°C) and rising. Lower temperatures produce a slower set; higher temperatures produce a faster set. For temperatures below 40°F (4°C) consult with the manufacturer for special cold weather placement provisions which include but are not limited to conditioning of the materials, use of heated mix water and thermal protection. In hot weather use chilled water for mixing.

PACKAGING:

HP Construction Grout is packaged in 50 lb Kraft multi-wall, polyethylene lined bags. Yield when mixed with 110-115 ounces of water is approximately .42 ft³.

CAUTION:

WARNING! CONTAINS FREE SILICA & PORTLAND CEMENT. DO NOT BREATHE DUST. May cause delayed lung injury (silicosis). Follow OSHA safety and health standards for crystalline silica (quartz). Cement powder or freshly mixed concrete grout or mortar may cause skin injury. Avoid contact with skin and wash exposed skin areas promptly with water. If any cement powder or mixture gets into the eyes, rinse immediately and repeatedly with water and get prompt medical attention.