



Rapid Set® UltraFlow™ 4000/8 — DATASHEET

Precision, Fluid , Non-Shrink Grout

DESCRIPTION:

UltraFlow™ 4000/8 offers advantages that no other grout can match. It is a fluid consistency grout that provides extended working time to allow for large placements, but then gains strength quickly after an hour and hits 4000-psi in 8 hours. Hence the name UltraFlow™ 4000/8. In the past, a choice had to be made between long working time and early strength gain. Rapid Set® has been making non-shrink grouts since 1981 and UltraFlow™ 4000/8 allows grout users to have it all. Large pours can be easily completed with UltraFlow™ 4000/8 and be ready for use in just 8 hours.

FEATURES / BENEFITS:

- Fluid – flows easily into tight areas
- Extended Working Time – fluid for 30 minutes and workable for an hour
- Early Form Removal and Cutback – job completed faster
- 8 Hour Strength – allows machines to be returned to service faster
- Non-Shrink – for permanent bearing support and load transfer
- 98% plus Effective Bearing Area – provides maximum support and load transfer
- Any consistency – can be fluid, flowable, plastic, or damp pack
- Does not bleed or use gas forming agents – no hollow spots under the plate
- Pumpable – easy to place
- No Segregation – the grout stays strong and durable
- Sulfate Resistant – for use in high sulfate areas
- High Freeze/Thaw Resistance – for outdoor use
- Can be coated or painted in 24-hours

PRIMARY USES:

- Baseplates · Machinery
- Equipment · Soleplates
- Columns · Structural members
- Anchor bolts · Dowel rods
- Marine application · Voids and rock pockets
- Pre-placed aggregates

WHEN TO USE:

- When precision alignment is required
- When maximum load bearing is required
- When long working time is required
- When pours are thin or intricate
- When early stripping is required
- When 8 hour strengths are required
- When time is of the essence

ASTM C1107

UltraFlow™ 4000/8 is fluid for ½ hour and remains workable for an hour. UltraFlow™ 4000/8 can be used from 45 to 90 F. UltraFlow™ 4000/8 meets ASTM C1107 as a Grade A, B, and C grout.

PHYSICAL PROPERTIES: (at 73o F)

- Compressive Strength, (psi) ASTM C109
Fluid
8 hour: 4000
1 day: 6500
3 days: 7500
7 days: 8000
28 days: 8500

VOLUME CHANGE:

- Meets both ASTM C827 for early height change and ASTM C1090 for hardened height change, thereby qualifying as a grade A, B, and C grout.
- Effective Bearing Area: 98%
- Bond Strength or Splitting Tensile Strength, ASTM C882
2000 psi @ 28 days
- Freeze/Thaw, ASTM C666
99% @ 300 cycles
- Setting Time, ASTM C191
(At fluid consistency)
Initial set: 95 minutes
Final set: 150 minutes.
- Yield, Packaging and Shelf Life
UltraFlow™ 4000/8 will yield approximately .5 cubic feet of hardened grout when mixed to a fluid consistency. UltraFlow™ 4000/8 is packaged in 55 pound multi-layered, polyethylene-lined bags. Shelf life for unopened bags stored in dry conditions is one year.