



# Check List for Grouting Work

8.2014

NO.	Item	Testing /Inspection Method	When to inspect	Criteria	Trouble Shooting
1	SS Mortar inspection	Check the Lot Number printed on the bag to confirm the bag life, which should be within one year from the date manufactured	Before grouting	Make sure that SS Mortar does not expire the bag life of one year	Discard the expired material and use only the material within one year bag life
2	SS Mortar inspection	Visual inspection on SS Mortar	Before grouting	Make sure that there is no damage on the bag	Discard the damaged material
3	Ambient temperature	Measure the temperature with a thermometer	Before grouting	Between 35 ~ 140°F (2~60°C)	Apply proper curing if it goes below or above the appropriate temperature
4	Location & number of sleeves to be grouted	Check the location, number, & types of sleeves to be grouted	Before grouting	Note location and quantity of sleeves to be grouted and get materials ready at site	Report to the supervisor for instruction
5	Sleeve passage Inspection	Check by blowing out with air (using air compressor or by mouth and flexible tube) or flush out sleeves with high-pressure water from top port.	Before grouting	Make sure that there is a clear passage from the inlet to outlet ports	Report to the supervisor for instruction
6	Saturating grout pump and hose	Use water to saturate grout pump and hose for smooth flow (If a long hose is being used, apply mortar slurry instead)	Before grouting	Fill the hopper with water before mixing grout and flush out through the hose right before pouring mixed grout into the hopper.	To avoid the blockage of grout, pump slowly until the grout comes out from the tip of the hose. If tip becomes blocked insert stiff wire to clear blockage
7	Mixing water	Confirm with User's Manual	At the time of each grouting	1 gallon per 55 lbs. bag (Min. 0.98 ~Max. 1.03 gallon/55 lbs. bag)	Measure the water within the specified amount as described in the User's Manual
8	Mixing temperature	Confirm with User's Manual	At the time of each grouting	Measure the temperature of mixed grout that should be within 50~95°F (10~35°C)	Discard the mixing mortar that is not within the range and make the necessary adjustment (such as using cold or hot water)
9	Mixing time	Confirm with User's Manual	At the time of each grouting	Minimum 2.5 minutes at 500-1300 rpm with 7 amp or larger electric mixer with proper paddle	Check with flow test
10	Grout working time (Pot Life)	Confirm with User's Manual	During the grouting	Within 40 minutes	Discard the mixed mortar 40 minutes after mixing. Do NOT add water to increase time
11	Consistency test (Flow test)	Confirm with User's Manual (Use Flow Table with cylinder)	Immediately after mixing the first batch	The consistency measurement should fall in the range of 6" to 9-1/4".	Follow the instruction on the "SS Mortar Grout Consistency/Flow Test Chart." Discard the mixed mortar that was beyond 9-1/4" in diameter
12	Compressive strength test	Confirm with User's Manual (Use 2" x 2" steel or brass cube mold)	Immediately after mixing the first batch	Assemble test specimens for compressive strength of grout to determine performance of NMB Splice-Sleeve.	Report to the supervisor for instruction
13	Full grouting	Confirm with User's Manual	At the time of each grouting	Make sure that all sleeves were totally grouted inside and keep pumping until the grout is observed coming from the outlet hole in a solid flow.	Determine the cause of trouble and make the necessary correction before re-grouting. Re-grout within the grout working time
14	Record keeping	Confirm with User's Manual	Before-during-after grouting	Reconfirm that all sleeves and joint areas are completely grouted by using grouting report as a checklist	Grout all sleeves that are scheduled for grouting on that day