



## Material Testing Results

**Machine Technologies**  
620 CR4841 Haslet TX 76052  
**Phone:** 817-636-5637 **Fax:** 817-636-5675

**Date:** 2-13-13  
**E-Mail:** [info@machine-technologies.com](mailto:info@machine-technologies.com)  
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**Manufacturer:** Lyons Manufacturing, Inc. **Contact:** Robert Morris  
8900 Forney Rd **Phone:** 214-381-8100  
Dallas, TX 75227-8158 **Fax:** 214-381-8158

**Material:** Power-Crete **Lot#** 20130206

**Material Application:** Structural Repair

**Mfg. Plant:** Dallas, TX **Std. Bag Weight:** 50 LB

**Testing Conditions:** Outside Temperature 45°F Humidity: 61%

**Equipment Used:** Model: MP25SO **Pump:** D8-1.5  
Mixer: CONT **Power:** Electric

**Std. Mix Ratios:** 1.5-1.9 **Water Temp:** 70.2%

**Batching Method:** Mixing Pump **Quantity Water:**

**Mixing Time:** Continuous **Batch Temp:**

**Specific Gravity:** SG = 2.14 **Flow Cone** N/A Seconds

**Pumping Method:** Recirculated through hose, recorded pressures at various flow rates.

<b>Flow Rate/Pressure:</b>	<b>Flow Rate</b>	<b>Pressure</b>	<b>Flow Rate</b>	<b>Pressure</b>
Hose (1 1/4" X 50')	3.28 GPM	40 PSI	GPM	PSI
Hose (1 1/4" X 50')	5.59 GPM	60 PSI	GPM	PSI
Hose (1 1/4" X 50')	8.01 GPM	75 PSI	GPM	PSI
Hose (1 1/4" X 50')	9.62 GPM	85 PSI	GPM	PSI
Hose (1 1/4" X 50')	11.83 GPM	95 PSI	GPM	PSI
Hose (1 1/4" X 50')	14.08 GPM	110 PSI	GPM	PSI
Hose (1 1/4" X 50')	16.23 GPM	120 PSI	GPM	PSI
Hose (1 1/4" X 50')	18.71 GPM	130 PSI	GPM	PSI
Hose (1 1/4" X 50')	20.43 GPM	130 PSI	GPM	PSI
Hose (1 1/4" X 50)	22.84 GPM	135 PSI	GPM	PSI

**Observations:** Mixed very well and consistent. MP-25SO x 1 33ft 25mm  
Hose Max hose length: 33-200ft

Machine Technologies recommends the MP25 Mixing pump.



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**Manufacturer:** Lyons Manufacturing, Inc. **Contact:** Robert Morris  
8900 Forney Rd **Phone:** 214-381-8100  
Dallas, TX 75227-8158 **Fax:** 214-381-8158

**Material:** Super Flowcrete **Lot #** 20130206

**Material Application:** Self-Leveling Topping or Underlayment

**Mfg. Plant:** Dallas, TX **Std. Bag Weight:** 45#

**Testing Conditions:** Outside Temperature 45°F **Humidity:** 61%

**Equipment Used: Model:** MP25SO **Pump:** D8-1.5  
**Mixer:** SPD 3 **Power:** Electric

**Std. Mix Ratios:** 1.9GPM **Water Temp:** 70.2%

**Batching Method:** Mixing Pump

**Mixing Time:** Continuous **Batch Temp:**

**Specific Gravity:** SG= 2.14 **Flow Cone:** N/A Seconds

**Pumping Method:** Recirculated through hose, recorded pressures at various flow rates.

Flow Rate/Pressure:	Flow Rate	Pressure	Flow Rate	Pressure
Hose (1 1/4" X 50')	3.28 GPM	40 PSI	GPM	PSI
Hose (1 1/4" X 50')	5.59 GPM	60 PSI	GPM	PSI
Hose (1 1/4" X 50')	8.01 GPM	75 PSI	GPM	PSI
Hose (1 1/4" X 50')	9.62 GPM	85 PSI	GPM	PSI
Hose (1 1/4" X 50')	11.83 GPM	95 PSI	GPM	PSI
Hose (1 1/4" X 50')	14.08 GPM	110 PSI	GPM	PSI
Hose (1 1/4" X 50')	16.23 GPM	120 PSI	GPM	PSI
Hose (1 1/4" X 501)	18.71 GPM	130 PSI	GPM	PSI
Hose (1 1/4" X 50')	20.43 GPM	130 PSI	GPM	PSI
Hose (1 1/4" X 50')	22.84 GPM	135 PSI	GPM	PSI

**Observations:** Mixed was very nice and consistent.  
Max hose length: 150-200ft = 25mm x 66'

Machine Technologies recommends the - MP25



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8900 Forney Rd **Phone:** 214-381-8100  
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**Material:** Lyons Premium 1107 Non-Shrink Grout **Lot #** 20130206

**Material Application:** Non-Shrink Construction Grout

**Mfg. Plant:** Dallas, TX **Std. Bag Weight:** 50lbs

**Testing Conditions:** Outside Temperature 45°F **Humidity:** 61%

**Equipment Used:** **Model:** MP25SO **Pump:** D8-1.5  
Mixer: Cont. **Power:** Electric

**Std. Mix Ratios:** 1.7GMP 1.5-1.3 50lbs **Water Temp:** 70.2%

**Batching Method:** Mixing Pump **Quantity Water:** 1.7GPM

**Mixing Time:** Continuous **Batch Temp:**

**Specific Gravity:** SG = 2.14 **Flow Cone** N/A Seconds

**Pumping Method:** Recirculated through hose, recorded pressures at various flow rates.

<b>Flow Rate/Pressure:</b>	<b>Flow Rate</b>	<b>Pressure</b>	<b>Flow Rate</b>	<b>Pressure</b>
Hose (1 1/4" X 50')	3.28 GPM	40 PSI	GPM	PSI
Hose (1 1/4" X 50')	5.59 GPM	60 PSI	GPM	PSI
Hose (1 1/4" X 50')	8.01 GPM	75 PSI	GPM	PSI
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Hose (1 1/4" X 50')	11.83 GPM	95 PSI	GPM	PSI
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Hose (1 1/4" X 50')	20.43 GPM	130 PSI	GPM	PSI
Hose (1 1/4" X 50')	22.84 GPM	135 PSI	GPM	PSI

**Observations:** Mixed very well and stayed consistent.  
Max hose length: 150-200ft

Machine Technologies Recommends the MP25



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**Material:** Flowcrete SLU **Lot #:** 20130206

**Material Application:** Interior self-leveling underlayment

**Mfg. Plant:** Dallas, TX **Std. Bag Weight** 50lbs

**Testing Conditions:** Outside Temperature: 45.\*F **Humidity:** 61%

**Equipment Used:** **Model:** MP25HO **Pump:** R7-1.5  
**Power:** Electric

**Std. Mix Ratios:** 1.GMP **Water Temp:** 70.2%

**Batching Method:** Mixing Pump **Quantity Water:** 3.4 GPM

**Mixing Time:** Continuous **Batch Temp:**

**Specific Gravity:** **Flow Cone** N/A Seconds

**Pumping Method:** Recirculated through hose, recorded pressures at various flow rates.

<b>Flow Rate/Pressure:</b>	<b>Flow Rate</b>	<b>Pressure</b>	<b>Flow Rate</b>	<b>Pressure</b>
Hose (1 1/4" X 50')	3.28 GPM	40 PSI	GPM	PSI
Hose (1 1/4" X 50')	5.59 GPM	60 PSI	GPM	PSI
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Hose (1 1/4" X 50')	20.43 GPM	130 PSI	GPM	PSI
Hose (1 1/4" X 50')	22.84 GPM	135 PSI	GPM	PSI

**Observations:** Mixed very nice and stayed consistent.  
Hose was 66' 35MM MAX Hose 200+

Machine Technologies Recommends the MP-25