

Concrete Top Pour Procedures

This represents a 3.3 cu/ft pour using 5 bags of Sakrete 5000. Each bag of Sakrete 5000 contains $\frac{2}{3}$ or .66 cu/ft of concrete. The pour is divided into two mixes, because the mixer I use will only hold 1.65 cu/ft.

Sakrete calls for approximately 1 gallon of water per 80 lb. bag. For the 1.65 cu/ft pour using 2 $\frac{1}{2}$ bags, I used approximately 2 $\frac{3}{4}$ gallons of water.

The Neomix Original Admixture and the Neomix Original Water Reducer was purchased from the Cheng Concrete Exchange. Here is a link to the website page:

http://store.concreteexchange.com/CHENG-Concrete-Online-Store_5/NeoMix-Original-Products

1. Check mold and rebar/mesh to assure readiness
2. Gather all needed materials
 - a. Mixer
 - b. Wheelbarrow
 - c. Shovel
 - d. Bungee cord and plastic (to cover mixer when mixing dry ingredients)
 - e. Rubber gloves
 - f. Float
 - g. 2 x 4 for screeding
 - h. Vibrator
 - i. 5 gal bucket
 - j. 2 – 1 gal containers of water per mix
 - k. Neomix original admixture (measured for 3 cu ft)
 - l. Neomix water reducer (measured for 3 cu ft)
 - m. 4 - Sakrete Charcoal pigment (1lb packet)
 - n. 5 – 80 lb Sakrete 5000 concrete mix
3. Separate Neomix original admixture into half
4. Separate Neomix water reducer into half
5. Pour Neomix water reducer into 1 gal of water in 5 gal bucket
6. Lay aside rebar/mesh
7. Empty 1 80 lb bag Sakrete 5000 ($\frac{2}{3}$ cu/ft) into mixer
8. Add half Neomix admixture to concrete in mixer
9. Add dry pigment to concrete in mixer (2 lb of Sakrete Charcoal for Roseman kitchen)
10. Empty an additional 1 $\frac{1}{2}$ bags 80 lb Sakrete 5000 into mixer (total of 2 $\frac{1}{2}$ bags)
11. Cover mixer opening with bungee and plastic and mix dry for 3-4 minutes
12. Add the gallon of Neomix water reducer mixed with water from 5 gal bucket into mixer
13. Mix for 3-5 minutes
14. Add 1 gallon of water and mix thoroughly (may need to stop mixer from time to time to scrape bottom of mixer)
15. Add approximately $\frac{1}{2}$ to $\frac{3}{4}$ gallon of water until concrete is the consistency of oatmeal (should be wet enough to spill out of shovel, but not too wet)
16. Mix thoroughly. (This 2 $\frac{1}{2}$ bag mix is 1.65 cu/ft)
17. Place concrete into mold
18. Mix and place into mold the second 2 $\frac{1}{2}$ bag mix (assuming a 3.3 cu/ft pour)
19. Place rebar/mesh on top of concrete and press below surface

20. Screed level
21. Vibrate and float concrete until bubbles stop forming
22. Leave concrete in form for 3 or 4 days.
23. Remove from form and wet grind with 50 grit diamond wheel to expose voids
24. Use a slurry mix of pure Portland Cement with charcoal pigment to fill voids
25. After 24 hours, wet grind again with 100 grit diamond wheel to expose more voids
26. Slurry again
27. After 24 hours, wet grind with 200 grit diamond wheel
28. Slurry again if necessary
29. After 10 days from the original pour date (14 days if Neomix was not used) wet polish with successive grits to 1500 grit
30. After 24 hours, sealer may be applied to the thoroughly dry, polished top
31. After 24 hours apply a second sealer
32. After 24 hours wax the top