

# SHOTCRETING

Wet-mix shotcrete involves pumping of a previously prepared concrete, typically ready-mixed concrete, to the nozzle. Compressed air is introduced at the nozzle to impel the mixture into the receiving surface. The wet-gun procedure generally produces less rebound.

## Qualities of Shotcrete

Properly applied shotcrete is a structurally sound and durable construction material which exhibits excellent bonding characteristics to existing concrete, rock, steel, and many other materials. It can have high strength, low absorption, good resistance to weathering and resistance to some forms of chemical attack. Many of the physical properties of sound shotcrete are comparable or superior to those of conventional concrete or mortar having the same composition. Improperly applied shotcrete may create conditions much worse than the untreated condition.

## Advantages of Shotcrete

Shotcrete is used in lieu of conventional concrete, in most instances, for reasons of cost or convenience. Shotcrete is advantageous in situations when formwork is cost prohibitive or impractical and where forms can be reduced or eliminated. Access to the work area is difficult, thin layers or variable thicknesses are required, or normal casting techniques cannot be employed. Additional savings are possible because shotcrete requires only a small, portable plant for manufacture and placement. Shotcreting operations can often be accomplished in areas of limited access to make repairs to structures.



# Our Experience

## Sl.No Contractor Project

1. Gulf Cement Company  
Cavity Filling of Soil - Umbaab
2. Dicotech,  
Soil Stabilization, Dukan Gas .
3. Al Sharkawi Bldg. Cont. LLC  
Secant Piles- Ajman Corniche Residence Project
4. Contracting  
Guniting to Dome – Mosque Neare Fish Market,  
Sharjah
4. Contracting  
Guniting to Dome – American Univercity Dubai
5. Obaidulla Contracting  
Guniting to Dome – Ibn Batuta Mall,
6. General Contracting  
Guniting to Dome – , Sharjah
7. Team Engineering  
Guniting to Dome – Mosque, Jumairah
8. Al Abbar Contracting  
Guniting to 3 Nos of Dome – Mosque in
9. ACCSecant Pilet
10. Impregello, Abudhabi  
Guniting to Dome –Grand Mosque Project
11. Karam Contracting  
Guniting to Dome – Recreation Centre, Sharjah
12. Karam Contracting  
Guniting to Dome - Girls Hostel, Sharjah
13. Karam contracting  
Guniting to Dome – , Sharjah
14. Sun Engineering  
Secant Piles – , Ai Ain
15. Chaina Contracting  
Secant Piles - Bays water on  
plot BB.A03. 066 Business Bay
16. Al Buhaira Contracting LLC  
Secant Pile – B=G=M=3 Bldg. At Karama
17. CRCSecant Pile  
– Dora Tower