

TAIWAN CAPSTONE

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capping gypsum



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TAIWAN CAPSTONE



Taiwan CAPSTONE based in Taiwan with history of more than 30 years since being founded in 1981. We are proud of our product which is high strength gypsum specifically applied in concrete compression testing as capping material. The headquarters and production facilities are situated in Tainan City, located near one of the largest ports in Taiwan, Kaohsiung Port, with convenient transportation. The factory has an area of over 5,000 square meters. By modern automatic production line and analytical instrument with high detection limit, we can supply gypsum with the best quality for our clients.

Capping Gypsum



Our product, high strength capping gypsum, can reach 5,000~9,000 psi (350~630 kgf/cm²) after mixing with water for 30 mins. This type of gypsum is used as capping material for concrete compression test according to ASTM C617 and AASHTO T231 standard. Therefore, our high strength capping gypsum is qualified and approved to be applied in the civil engineering industry. We have competent local agent partners with rapid growing business located internationally regarding gypsum as a faster, safer, easier and cheaper method compared with sulfur capping, rubber pad capping or grinding machine. For cylinder concrete specimen, our high strength gypsum is always the best choice!



Product Introduction

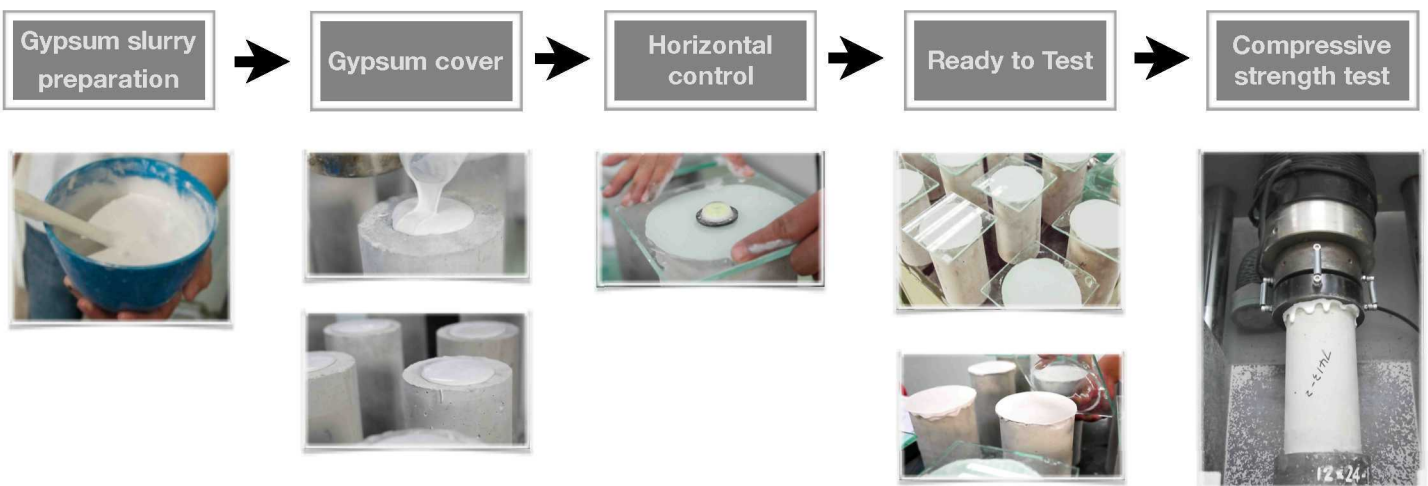


	S-280	S-350	S-420	S-560	S-630
Water Gypsum ratio ⁽¹⁾	25~26%	23~24%	21~22%	17~18%	15.5~16%
Holding time ⁽²⁾	30min	30min	30min	30min	40min
Compressive strength	280 kgf/cm ² 4000 psi	350 kgf/cm ² 5000 psi	420 kgf/cm ² 6000 psi	560 kgf/cm ² 8000 psi	630 kgf/cm ² 9000 psi
Application					
Soil-cement					
Ready-Mix					
Regular construction					
Shopping mall					
High rise					
Rail way					
Bridge					
High way					
Precast					
Sky scraper					

(1) Water gypsum ratio: 23% = 100g Gypsum : 23g water










(2) Holding time is tested at room temperature ~ 23°C

Process

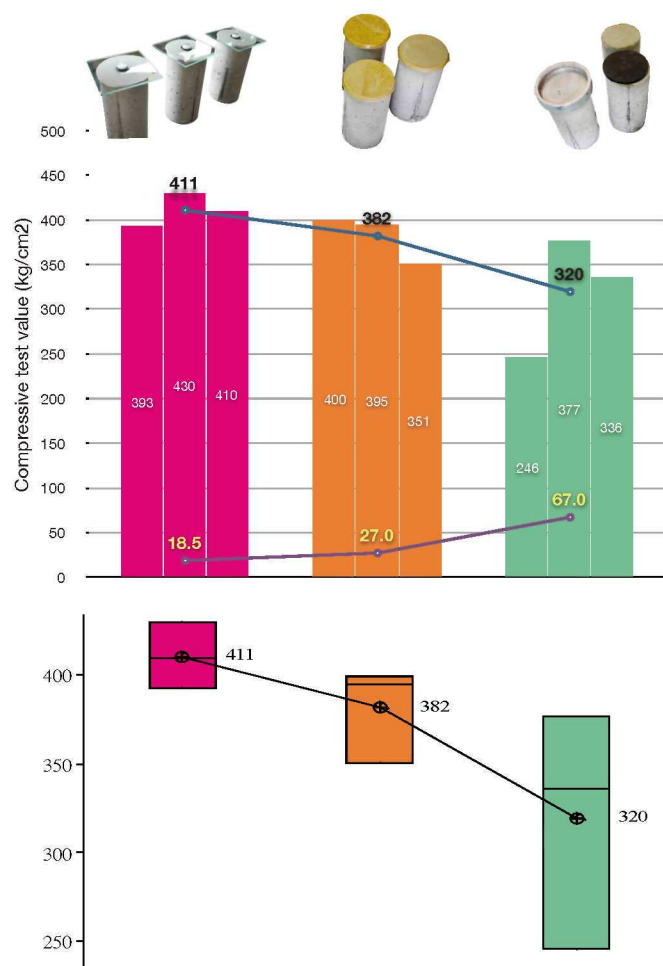




Capping Method Comparison

	GYPSUM	SULFUR	PAD
Human-Friendly	Non-Toxic 	Highly Toxic	No Harm 
Pressure Uniformity	High 	Medium	Low
Data Accuracy	High 	Medium	Low
Surface Condition After compressive test	Good 	Cracked	Cracked after periodic used
Sample amount /one time	10~15 samples 	1 sample	1 sample
Average operation time	2 mins	5 mins	1 min 
Hardening Time	30 Min	2 Hours	No need 
Operation Range	0 - 9000 Psi 	0 - 3000 Psi	case by case ⁽¹⁾

(1) Follow by ASTM C1231-10a 1.2



Bar Chart for the test result:

- Average

Gypsum capping (411 kgf/cm²)

Sulfur capping (382 kgf/cm²)

Neoprene Pads (320 kgf/cm²)

- Standard Deviation

Gypsum capping (18.5)

Sulfur capping (27.0)

Neoprene Pads (67.0)

Six Sigma analysis:

- Gypsum capping shows the highest average value and smaller deviation.

- Neoprene Pads have lower compressive strength and higher SD value because of the incomplete perpendicularity and horizontality.

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