



## المتحدة للصناعات التعدينية United Mining Industries

# HEMIHYDRATE UMI CALCINED GYPSUM POWDER

### PRODUCT DESCRIPTION

UMI Gypsum Powder is inorganic mineral consists of calcium sulfate Hemihydrate ( $\text{Ca SO}_4 \cdot \frac{1}{2} \text{H}_2\text{O}$ ). It is made from natural gypsum (Gypsum Rock) using suitable calcination processes. UMI Gypsum Powder is manufactured according to SASO (ASTM C59/ C59M – 00) standard and Compatible with European standard EN 13279-1 and Gulf standard NO. 2025/1995. It is neutral and doesn't have any health hazards. Just in case you got contaminated by this powder, Wash the exposed parts by tap water. If this material is ingested, you need to gurgle your nose or mouth by water.

### PROPERTIES & APPLICATIONS

UMI Gypsum Powder can be Used at interior and exterior decoration works as single coat for walls and ceilings, also used in molds for making decorative forms, can be used also in other fabrication works like electrical or plumbing as an accelerator for setting time.

### PRODUCT ADVANTAGES

- High compressive strength
- high fluidity and workability
- more fineness and shining
- suitable setting time

### TECHNICAL SPECIFICATIONS

CHEMICAL PROPERTIES			PHYSICAL PROPERTIES	
CONTENT	%	CAS No.	TEST	RESULT
Free Water at 45 °c	0.05	7789-20-0	SIEVE ANALYSIS WITH MESH SIZE :	0.045 mm > 69 %
Combined Water H <sub>2</sub> O	4.5	7789-20-0		0.063 mm > 79 %
CaSO <sub>4</sub> -2 H <sub>2</sub> O	3.4	10101-41-4		0.090 mm > 90 %
CaSO <sub>4</sub> -½ H <sub>2</sub> O	76	10034-76-1		0.125 mm > 94 %
soluble CaSO <sub>4</sub>	6.7	7778-18-9		0.200 mm > 98 %
insoluble CaSO <sub>4</sub>	4.8	7778-18-9		0.300 mm > 100 %
SiO <sub>2</sub> & insol. materials	4.1	14808-60-7	INITIAL SETTING TIME	6:00-8:00 min
MgO	0.23	1309-48-4	FINAL SETTING TIME	15:0-18:00 min
Cl	0.13	16887-00-6	WATER / PLASTER RATIO	80 %
CO <sub>2</sub>	0.09	85540-96-1	WHITENESS	90 %
PH	7.1		COMPRESSIVE STRENGTH after 7 days	12.5 MPa

ENG.   
**AHMED BADAWY**  
QA/QC Manager

www.ugc.com.sa

Head Office:  
P.O.Box 127398 Jeddah 21352  
T. +966 2 691 3497,  
F. +966 2 682 3651,  
E-mail: jeddahsales@ugc.com.sa

Plant Management  
Yanbu, P.O. Box 31491,  
T. +966 4 396 8777,  
F. +966 4 396 2666,  
E-mail: yanbusales@ugc.com.sa

إدارة المصنع:  
ينبع، ص.ب. ٣١٤٩١،  
هاتف: ٨٧٧٧ ٣٩٦ ٩٦٦ +  
فاكس: ٢٦٦٢ ٣٩٦ ٩٦٦ +

المركز الرئيسي  
ص.ب ١٢٧٣٩٨ جدة ٢١٣٥٢  
هاتف: ٣٤٩٧ ٦٩١ ٩٦٦ +  
فاكس: ٣٦٨٢ ٦٨٢ ٩٦٦ +

Data Sheet