



WATANI GRG

HIGH-PERFORMANCE GYPSUM PLASTER COMPOUND

Together, We Build Gypsum Excellence

DESCRIPTION

Watani GRG is unique **formulated gypsum plaster** with enhanced **strength additives**, produces **high mechanical strength**, **hard smooth surface** with **reduced water, paint absorption**.

KEY FEATURES

- Superior Decorative Strength and Finish.
- Smooth and Dense Surface Texture.
- Low Water and Paint Absorption.
- High Impact and Scratch Resistance.
- Easy Mixing and Excellent Workability.

TYPICAL APPLICATIONS

Architectural Molding's fabrications include **custom cornices, friezes, ceiling center's, door casings, wall and ceiling panel ornaments, ceiling tiles, columns, pilasters, pediments, brackets, capitals, barrel vaulting and domes, panels, mantels, wall niches and custom shapes**.



Phone
+966 11 512 2189
Email
info@w-gypsum.com

Address
Head Office: Saudi Arabia, Riyadh
Tahliah Street, Motoon North Building
Floor No 1, Office N101
Website
www.w-gypsum.net



PRODUCT SPECIFICATION

SPECIFICATION PARAMETER	VALUE
WATER / PLASTER RATIO (%) :	35 -40
INITIAL SETTING TIME (MIN):	12 - 15
FINAL SETTING TIME (MIN):	20 - 25
SLUMP DIAMETER (MM):	160-200
COMPRESSIVE STRENGTH (MPA):	≥ 30
FLEXURAL STRENGTH (MPA):	11 -15
WATER ABSORPTION:	5-10
HUMIDIFIED DEFLECTION:	NOT MORE THAN $\frac{1}{8}$ IN. (3 MM)
SURFACE BURNING CHARACTERISTICS:	FLAME SPREAD INDEX 0 ,SMOKE DEVELOPED INDEX LESS THAN 10
NAIL PULL RESISTANCE:	≥ 489 N)
IMPACT RESISTANCE:	≥ 3 FT-LB (4 J)
HARDNESS	≥ 50 BARCOL

MIXING GUIDELINES

1. Mixing Ratio

Weigh the necessary quantities of gypsum and water as mentioned below. Any changes of quantities will affect the characteristics of the mix. Water ratio = 35- 40 % of powder.

2. Water Specifications

Use clean water; the presence of organic substances or high concentration of sulfate will reduce the setting time and the quality of the mix.

3. Spreading:

Spread the gypsum 1 minutes on the entire surface of the water.

4. Absorption:

Leave the mixture for 1 mins before mixing.

5. Mixing Process:

use mechanical blending (three blade mixer, diameter of blade $\frac{1}{4}$ to $\frac{1}{3}$ x height of the mixing bucket), at a speed of 200 to 400 rpm. Avoid high speed since mixing too quick will produce an inhomogeneous mixture. Mixing time is not less than a minute.

- Start casting immediately as soon as finished mixing.



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RECOMMENDATION

Avoid dust emittance while mixing, opening, and closing the bag. Wear appropriate personal protective equipment to avoid contact with your eyes and skin.

STORAGE CONDITION

- Store WATANI Dura GRG Gypsum away from incompatible material in a cool, dry, ventilated environment.
- Avoid contact with acid, water, and moisture.
- Store away from frost, high temperatures, and direct sunlight exposure.

SHELF LIFE

The product retains its **optimal properties** for up to **12 months** from the **production date** indicated on the packaging.



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