



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.



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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 ⅛ 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 ¼ to 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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