

G100 | Cement-Based Plastering

for General Purpose

Product Description

TALYEES-G100 is a preblended cement-based plastering material designed for spray machine and manual applications as a render or a plaster applied onto internal and external, rough or smooth substrate surfaces.

TALYEES-G100 is composed of hydraulic binders, selected manufactured aggregate, special filler materials, fibers, and selected additives to provide excellent workability, adhesion and bonding properties.

TALYEES-G100 is used in the following recommended applications:

- Internal and external rough surfaces such as block walls and bricks.
- Internal and external smooth surfaces such as cast-in-place concrete, precast concrete and fair-face block and brick surfaces after the application of a bond coat. TARTASHA products are highly recommended to be used as a bonding coat (spatter dash) in this case.

Features/Advantages

- Pre-blended dry mix plaster ready to be used by spraying machines or manual that only requires the addition of potable water at site.
- Factory controlled ensuring high quality product with assured consistency.
- Designed for external and internal applications in humid and dry conditions.
- Easy to apply with enhanced workability allowing a faster construction process saving cost, time and manpower.
- Excellent resistance to harsh weather conditions providing excellent durability.
- Strong bonding and adhesion on a variety of substrates.
- In accordance with international specifications.

Conformity with Standards

TALYEES-G100 conforms with the quality standards.

- ASTM C926
- BS EN 1015-1
- BS EN 1015-6
- BS EN 13914
- ASTM C 150
- ASTM C 897
- BS EN 998-1
- ASTM C 1797
- BS EN 1015-3
- ASTM D4541

Technical Data¹

Appearance	Light grey powder
Aggregate Size	Up to 1.6 mm
Bulk Density	1.4 ± 0.1 kg/l
Wet Density	1.75 ± 0.1 kg/l
Working life	45 – 60 min
Finishing Time	45 – 120 min
Compressive Strength ²	≥ 4 N/mm ²
Flexural Strength ³	≥ 1 N/mm ²
Bonding Strength ⁴	≥ 0.3 N/mm ²
Yield	Approx 650 l/t
Coverage ⁵	42 m ² /t
Packing	Bulk or jumbo bags (1 ton)
Shelf Life ⁶	12 months

1 The above technical data are generated under laboratory conditions, some variations are expected due to weather, site, and application conditions which are beyond the control of the manufacturer.

2 Compressive strength at 28 days as per ASTM C109.

3 Flexural strength at 28 days as per ASTM C 348.

4 Bonding strength at 28 days (EN 1015- 12).

5 The coverage figures mentioned above is based on 15 mm plaster thickness and is meant as a general guideline only. Actual coverage depends on application method, substrate type and nature, and material wastage.

6 Under dry shaded conditions and in its original unopened packing.

Application Instructions

Surface Preparation

Surfaces must be clean, sound, and free from oil, grease, curing compound or any other materials that may reduce the adhesion and the bonding of TALLYEES-G100 with the substrate surface.

Rough surfaces such as block walls and bricks should be pre-wetted with potable clean water. No free water should be on the surfaces at the application time of TALLYEES-G100.

Smooth, dense surfaces such as cast-on-site concrete, precast concrete, and fair face blocks with little mechanical roughness can be provided with an effective textured roughness by a bond coat (spatter dash). TARTASHA products are highly recommended to be used in such cases.

All materials for reinforcement, carrier and bead, corner beads should be installed in their locations before applying the plaster material. Cracks in the background should be repaired before applying the plaster. If dubbing-out (filling in of localized hollows in the background) is needed, it should be done well in advance of the application of the plaster material and allowed to harden before the plaster is applied.

Pretreatment of Special Backgrounds (Surfaces)

The background should provide adequate strength and rigidity for support of the plaster, adequate and uniform roughness and suction for adhesion of the plastering material.

The use of a pre-treatment should be considered for a background surface with high or low suction since adhesion of the plastering is determined to a great extent by the suction of the background. Both high suction surface (which absorbs mixing water quickly) and low suction surface tends to impair the development of a good bond.

The pre-treatment of the background may also include the use of reinforcement for plaster applied to mixed masonry backgrounds, unstable backgrounds, etc. Do not use TALLYEES-G100 on lightweight autoclave blocks (AAC).

Contact Saudi Readymix when plastering material is to be applied on special or ultra-smooth concrete surfaces that may require special pre-treatment.

Mixing

- **Spray Machine:** The flow meter in the machine may be adjusted to obtain the optimum consistency for application. Spray the material using the spray gun of the machine.

- **Mechanical & Manual Mixing:** Add 50 kg of TALLYEES-G100 to 9 to 10 liters of clean potable water (always add the material to water, not water to the material). Mix with a mechanical plaster mixer or a low speed electrical drill fitted with a suitable paddle until a uniform consistency is achieved (generally 3 to 5 minutes of mixing are required).

Application

Apply TALLYEES-G100 in a single layer using the spray gun of the spray machine at a thickness of 10 to 25 mm. Contact Saudi Readymix if the required thickness of the plastering exceeds 25 mm. Level the applied material to a uniform thickness within 5 to 10 min of application. Start Smoothing the surface when applied material starts setting properly, finish the applied material using an aluminum profile then smoothen it using suitable floating tools to achieve the desired appearance. Do not over trowel the surface.

In manual applications, TALLYEES-G100 should be applied in two layers. The first (scratch) coat shall be applied with sufficient material and pressure to ensure tight contact and complete coverage of the solid base to a thickness of 10 to 15 mm.

As soon as the first (scratch) coat becomes firm, the entire surface shall be scored in one direction only.

The vertical surfaces shall be scored horizontally. Cure the first coat for 2 days before applying the second coat. The second (finish) coat shall be applied with sufficient material and pressure to ensure tight contact and complete coverage of the base coat to a thickness of 10 mm.

Curing

Cure the applied TALLYEES-G100 by spraying clean potable water 2 to 3 times daily for at least three days. It is recommended that curing to be extended 1 or 2 days during the hot and dry conditions to minimize the risk of surface cracks.

Precautions & Limitations

Clean the tools with water before product hardening. In case of hardening, tools should be cleaned mechanically. Do not re-temper the mixed material. Do not apply TALLYEES-G100 at an ambient temperature lower than 5°C. Do not mix TALLYEES-G100 with any other material not recommended by Saudi Readymix. Protect TALLYEES-G100 from direct sunlight, wind and rain during application. Saudi Readymix has no responsibility for the defects due to the improper or non-recommended use of the product. For further information contact our technical department.

Storage

Bags should be kept sealed, placed on wooden pallets above ground level and covered by a waterproof tarpaulin.

Health & Safety

Since TALYEES-G100 is a cement-based product so it is a highly alkaline material. Care should be taken during the use and storage of TALYEES-G100 to avoid direct contact with eyes and skin. The use of protective gloves and goggles during application is recommended. Wash the skin with soap and water in case of contact. In case of contact with the eyes, wash immediately with plenty amount of clean water and seek medical advice.

TALYEES-G100 is a noncombustible material as per BS EN 13501-1 (Class A1).

Legal Disclaimer:

The terms and conditions of Saudi Readymix legal disclaimer applies and are an integral part of this product data sheet. Please refer to the legal disclaimer document for further information.

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