# TerraTon Wall Structured

MATTEOBRIONI

# Technical data sheet

## Informations

Name: TerraTon Wall Structured

Description: Coarse grained finishing cycle consisting of special hydraulic binders, clays, selected aggregates in a suitable grain size curve and specific additives to facilitate application and improve adhesion to substrates.

Features:

- ↔ 3 / 4 mm
- Vertical surfaces
- Interiors
- Exteriors

# Products used in the cycle

## TW02

Description: Premixed powder consisting of clays and fine-grained mineral binders.

| Available bags/ sacks sizes | 1.0 kg | 10.0 kg | 20.0 kg |
|---|---|---|---|
| | TW02-0100 | TW02-1000 | TW02-2000 |

## Equipment

- Clean bucket
- Electric mixer or spatula for mixing
- Trowel
- Stainless-steel plastering trowel
- In order to prepare large amounts of material, the mix can be prepared in a standard cement mixer or other mixers (with planetary axis, worm gear etc.).
- PPE: see safety instructions.

## Substrate preparation

Once prepared according to instructions TerraTon Wall Structured finishing can be applied on any type of substrate.

The substrate must be well-seasoned, solid, clean, dry, free of dust, grease, surfacing substances and separating agents that can form a film; it must be sufficiently rough, free of moisture and salt efflorescence; this also applies to the inner layers. Old paint coats must be carefully removed or, if well adhered to the substrate, preliminarily treated with our appropriate rough bonding primer. Plasterboard substrates must be professionally finished, stable (they must not sag or vibrate) and have no residual moisture (to prevent salt transmigration); this also applies to the joints between different panels, which must be plastered and Structureded by interposing netting or fabric tape; it is in any case advisable to apply our primer or specific bonding primer. On very Structured surfaces (concrete masonry, metal surfaces, etc.), it is necessary to apply our primers or fillers in advance, to be applied according to the instructions in the technical data sheet, or uniform mechanical treatments over the entire surface (diamond disk). On particularly absorbent panels (e.g. cellulose gypsum, wood fibre, etc.) the preliminary application of our primers or fillers is recommended. For the choice of primer and/or filler, please consult our technical manual or contact our office, stating the type of substrate.

## Mortar preparation

For a 20 kg sack of TW02:

- pour 1.5 kg of clean water into a clean bucket;
- mix and gradually add the TW02;
- continue by adding 5 kg of water to obtain an even mixture with no lumps and with a creamy consistency;
- leave the mix to rest for about 2-3 minutes;
- proceed with application.

Given the diverse nature of the clays, the amount of water may vary from one colour to another. In the case of the 10 kg bag, the amount of water needs to be halved.

If larger or smaller quantities need to be prepared compared to those of the amounts supplied, calculate the % of components as follows:

- Consider the overall weight of TW02;
- Add 32-38% in weight of clean water compared to the weight of TW02.

In each case, the amount of water should not exceed 38% in weight compared to the weight of the TW02 powders.

## Application

Two layers of about 1.5 mm thick (max 2.0 mm thick) are applied, for a maximum total thickness of 3.0 mm (max 4.0 mm thick) of the entire cycle.

Apply the first coat with a stainless-steel plastering trowel. Once the surface is completely dry (4 to 20 hours depending on site temperature), sand if necessary to obtain a homogeneous surface without “ridges” and apply the second coat. Structured the surface using the stainless-steel trowel to achieve the required effect.

24 hours after applying the second coat, the hydrophobising protective finishing cycle for exteriors can be applied, following the procedures given in the TDS. Other effects (custom) can be chosen depending on use, product function and the desired look.

Before starting, we recommend testing the application on the surface (at least 1 $m^2$) to be plastered to check the quality of the adherence to the substrate. This can also help you assess the colour that, in some cases, could be slightly different to what you imagined, in relation to the naturalness of the product and the substrate.

## Consumption

- TW02: 2.0 - 2.2 kg/$m^2$

* The values reported referring to two layers of product.

## Cleaning

Clean tools with water after use. The hardened material can only be removed by mechanical removal.

## Application conditions

Do not apply in the presence of strong wind, in direct sunlight or with externaland surface temperatures below 5°C or above 35°C. Drying times vary depending on the season, climatic and intrinsic conditions on the worksite. After application of the second coat, protect the surface from water for the next 5-7 days. Contact with water before it is completely dry can lead to surface stains, especially on darker colours.

# Technical data of the products

## TW02

| | |
|---|---|
| Consistency | Powder |
| Colour | Various colours from the Matteo Brioni palette |
| Bulk density | ~ 1.65 kg/l |
| Maximum aggregate size | ≤ 3 mm |
| Safety information | See SDS. |

# Performance data

| | | |
|---|---|---|
| Compressive strength | ~ 45 N/mm$^2$ CS IV | (EN 1015-11) |
| Flexural strength | ~ 10 N/mm$^2$ | (EN 1015-11) |
| Resistance to abrasion (Taber abrader - sandpaper strips S42; 1.000 g; 3,000 rpm) | < 1 g | (EN 5470) |

# Application data

| | |
|---|---|
| Water content of mix | 32 - 38% |
| Mixture ratio | |
| 20 kg TW02 sack | 6.4-7.6 kg $H_20$ |
| 10 kg TW02 bag | 3.2-3.8 kg $H_20$ |
| 1 kg TW02 bag | 0.32-0.38 kg $H_20$ |
| Minimum application temperature | + 5°C |
| Maximum application temperature | + 35°C |
| Working time | ≥ 90 min |
| Maximum thickness to be applied (one layer) | 2.0 mm |
| Waiting time between layers | 4 to 20 hours |
| Waiting time for the application of any protection | 24 hours |

* The reported values are for a T= 25°C and RH=60 %. Different temperature and relative humidity may cause a slight variation in the reported values.

# Additional information

## Shelf life and Storage

If kept away from dampness, at a temperature of between 5 and 35°C, in intact, undamaged packaging, it can be stored for a period of:

• TW02: 12 months

## Disposal

The residues of the product and equally its components should be treated as non-harmful special waste. Disposal needs to be entrusted to an authorised waste management company, in compliance with national and possibly local regulations. Contaminated packaging must be sent for recycling or disposal in compliance with national standards on waste management.

## Transport

TerraTon Wall Structured is not considered dangerous pursuant to current regulations on the transport of dangerous goods via road (ADR), rail (RID), sea (IMDG Code) and air (IATA). In the event of a risk of dispersion of the product, inform the relevant authorities to avoid environmental damage

## Warnings

• Product for professional use

• Use the safety devices mentioned in the SDS.

• Cement-based products tend to become lighter as a result of the hydration process. Small percentages of natural mineral pigment are therefore added to the compound to allow the desired tone to be achieved. For this reason, small flare-ups during application (colour streaks) are normal and intrinsic characteristics of the product.

• Applications at temperatures below + 5°C with a high percentage of relative humidity may give rise to surface carbonation phenomena. Different absorptions, incorrect application temperatures and heterogeneity of the substrates may aesthetically condition the final result of coloured mineral finishes. The colour appearance may vary depending on the environmental conditions of application. Avoid application on frozen, dusty, unstable and insubstantial. Always use the same amount of water to avoid colour variations. Do not do not apply on substrates subject to shrinkage or cracking as the mineral product, by its very nature, cannot withstand structural movements as it has no elastic power. Follow any existing structural joints in the substrate.

• At the first signs of any irregularities, contact our technical department: info@matteobrioni.com

## Legal notice

The technical sheet is drafted according to our technical knowledge and laboratory checks; it should be noted that Matteo Brioni srl may make integrations and/or variations to it over time; for these updates, please consult the website www.matteobrioni.com. Matteo Brioni srl takes responsibility for the validity, viability and updated status of its information only if taken directly from its website. Being unable to intervene directly on the conditions at the worksite and the work itself, these are general indications that are in no waybinding on our Company. We therefore recommend a preventive test to check that the product is suitable for its intended use. Our company guarantees the constant quality of its products: any ascertained liability will be limited to the exclusive value of our product. Our company takes no responsibility deriving from the recommended use of the product, either directly or indirectly, that is incorrect or irresponsible.

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