



SPARTYTE® MAR-col

MINERAL FORMULATION FOR THE REPRODUCTION BY CASTING OF STRUCTURES LIMESTONES AND MARBLE

Description SPARTYTE® MAR-col are formulations that are composed out of mineral inorganic components, which after mixing with water can be used for casting in moulds or formwork, to reproduce almost every type of lime-stones and marble.
The product is available in different versions, depending on the type of application or colour.
The different types are distinguished by a final code or number

- Advantages**
- Good mechanical and physical properties, colourfast also in severe climatic circumstances and UV-rays
 - The fluid consistency of the product guarantees a perfect casting even for difficult and complex shapes and forms.
 - The product can also be formulated towards a piece of stone from the jobsite, after analyses by our laboratory of both the pigmentation and the physical-mechanical properties of the existing stones.
 - SPARTYTE® MAR-col contains always some limestone and marble pieces (of which the origin and density differ in function of a wide range of esthetical and structural finishing) in an optimal granulometric distribution.
 - The structural hardening is based on the hydration of carbonates and mono-silicates in reaction with activated silica.
 - Volumetric stability can be obtained in function of particular demands. Several levels of volumetric compensation are available depending on the request of the customers.

Field of application Everywhere a reliable local repair or reproduction by casting of limestone or marble ornaments is needed. The product can be casted in mould or formwork, in the shop or on the jobsite.

- Use**
- Recommended to apply with in a rubber mould. The counter-form can be made of gypsum or a more rigid material. By occasion, it can be made of stainless steel or a more common material.
 - Avoid a gypsum form if the surface is not completely closed and there is a possibility for water-absorption of the product with the contact surface. The applied product will, in case of water loss by absorption, be compromised in strengths.
 - Mix with the water until the desired consistency is obtained. First mix with 10% water referring to the weight for 1-2 minutes and then add water while mixing for about 4 minutes, until the mix is lump free.
 - Keep the application wetted for at least 2-3 days after the demoulding.
 - For optimal protection and aesthetics together with a better conservation of the repaired surface and to reduce dirt or smog pick-up on the surface, the application should be protected with impermeabilizzante WP-55/LP. If desired a protective surface consolidation can be done with TECNOSOLID 82 as a second treatment (first test if there is no discolouration of the surface).
 - In the case a better colour uniformity or better aesthetics with the existing part of the structure is desired, apply VELART, a transparent, protective coating, .This can be formulated "ad hoc" in different shades of colour.



From Project to Jobsite

Storage Information according to 2003/53/CE:
12 months in original packaging, un opened, kept in dry and protected area between temperature from +5°C and +35°C.

Packaging Pails of 15 Kg.
Packaging is varying depending on the colour!

Technical properties (typical values)

- Mixing time: not less then 4-5 minutes and depending on the equipment used.
- Workability: circa 15 minutes.
- Typical mechanical resistance

The mechanical resistance will have some variations depending on the application. Since it is impossible to list full data, some interval values are given. The real values will be varying in between these limits:

	Compressive strength N/mm ²	Flexural strength N/mm ²
After 1 day	10 ÷ 25	2÷5
After 1 week	25÷45	4÷8
After 1 month	40÷60	5÷10

Note: 1 N/mm² = 10,2 Kg/cm²

- Adhesion (N/mm²) 1 ÷ 2 N/mm²
- Dimensional stability If desired, in function of the application, expansion or minimal shrinkage can be obtained (< 100 µm)

Consumption Kg 1,9-2,1 per litre pourable casting to be done.

Safety indications Read carefully the instructions on the packaging or read the Material Safety Datasheet related to the product before applying.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage.

Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below. Changes of this data sheet can be found in our web-site www.tecnochem.it where you can find the same technical data sheet updated in real time.

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