



SPARTYTE® AR-col

SPECIAL PRODUCTS FOR THE REPRODUCTION BY CASTING OF STRUCTURES IN SANDSTONE

Description SPARTYTE® AR-col are formulations composed out of mineral components, which can be used for the reproduction of almost all ornament in sandstone. The product is available in different types, 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.
 - The flow 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® AR-col contains always some sandstone 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 together with reaction with activated silica.
 - Volumetric stability can be obtained in function of particular demands. Several levels of volumetric compensation by controlled expansion are available depending on the request of the customers.

Field of application When a reproduction of sandstones ornaments is required. 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.



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 values:
- The mechanical strengths will vary depending on the application and can reach the desired values. The typical mechanical values can be considered as follows:

	Compressive strengths N/mm ²	Flexural strength N/mm ²
After 1 day	8-25	2-5
After 1 week	20-25	3,5-8
After 1 month	40-80	4-12

Note: 1 N/mm² = 10,2 Kg/cm²

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

Consumption Kg. 2 circa per litre of sandstone to be reproduced.

Safety indications Product is sensitive to humidity. Keep it in dry circumstances and close very well a pail that has been opened.

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.