



Technical Data Sheet

Material

DRYFIT[®] rinzafo is an under-layer plaster specifically developed to coat highly wet walls attacked by soluble Salts and bacteria. The inorganic nano-composite binder makes the material a perfect strengthening plaster for powdering and inconsistent walls. **DRYFIT[®] rinzafo** is created as under-layer plaster of **DRYFIT[®] orriccio** to be used in the renovating system **DRYFIT[®] SYSTEMA**

For further information, please look at the brochure **DRYFIT[®] SYSTEMA** downloadable at www.trimaterials.com.

General Informations

Granulometry:	0 - 1 mm	
Aspect / Color:	powder / white	
Components:	Alumina, inorganic nano-composites	
Water quantity:	Mix it with 19-22% of H ₂ O for 3 minutes. Add 4% of H ₂ O and mix it for 90 sec.	
Binder:	High performance hydraulic binder - no Portland cement - It can be used both internal and external environments	
Packaging:	25 Kg paper bag / even on 1000 Kg pellet	
Application:	By hand/trowel	
Application temperature:	5 - 35 °C	
Yield:	18 Kg _{powder} /m ²	Values referred to 1 cm in thickness
Lowest thickness:	3 mm	
Setting time:	26 min.	Values referred to a temperature of 20 °C and a moisture of 50%.
Hardening time:	< 48 min	

Application Fields

- Under-layer plaster (rough coating) for internal/external environments specifically developed to coat highly wet walls attacked by soluble Salts and bacteria.
- To use **DRYFIT[®] orriccio** (pointing) to complete the work after having protected the wall with **DRYFIT[®] rinzafo**
- **DRYFIT[®] rinzafo** is also used in historical-artistic buildings (Cultural Heritages) such as churches, historical palaces and so on.
- Suitable supports: solid, perforated, new and old brick masonries; proton, stone, mixed and rubble walls; concrete and steel reinforced concrete by paying attention to process the oxidized rebar before the usage



DRYFIT[®] rinzaffo



	Standard	MU	Value	Notes
Atmosphere pressure water absorption	UNI 7699	[%]	4,5 (mass); 8,9 (volume)	
Porosity	Laboratory data	[%]	29,5	Mercury Porosimetry
Adherence onto support	UNI EN 1015-12	[N/mm ²]	1,2	Tested on solid brick and concrete
Rising damp coefficient	UNI EN 1015-18	[Kg/(m ² h ^{1/2})]	0,014	
Flexural strength of hardened mortar	UNI EN 1015-11	[N/mm ²]	7,45	
Compressive strength of hardened mortar	UNI EN 1015-11	[N/mm ²]	57	
Thermal conductivity	UNI EN 12667	[W/mK]	0,16	
Setting time	UNI EN 1015-9	[minutes]	26	
Water vapor resistance factor	Laboratory data	[μ]	126	
Young Modulus	UNI 6556	[N/mm ²]	29500	
Linear thermal expansion coefficient	UNI EN 1770	[micron/(m°C)]	10,5	from -20°C to +60 °C
Fire reaction	UNI EN 998-1		Euroclass A1	
Wet mortar density	UNI EN 1015-10	[Kg/m ³]	1850-1900	
Dry mortar density	UNI EN 1015-10	[Kg/m ³]	1700-1750	


EN 998-1

GP: General Purposes plaster for internal/external environments
 Fire reaction: Class A1
 Water absorption: W2
 Water vapor resistance factor (μ): ≤170
 Cohesion: 1MPa interface between plaster and solid brick
 Cohesion after freezing/thaw: 0,8MPa interface onto brick
 Thermal conductivity: λ=1,04W/mK experimental
 Durability (freezing/thaw): more than 170 cycles -20°C +40°C



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Because of the variation of raw materials used there it should be slight change in the above data. This cannot concern our Company. We can change any specifications to improve material qualities without any preventive communication always in respect of our unconditional evaluation.



DRYFIT[®] rinzaffo is an official brand TRI Tecnologia e Ricerca Italiana
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Application



Essential tools

In addition to classic tools for the application of any civil plaster, the intention is to emphasize the following:

- use **very solid** 50 liters **plastic barrels** in order to realize the mixtures. Concrete mixer cannot be used because of too fast hardening times;
- use **a powerful variable speed mixer** in order to knead **DRYFIT® rinzafo** with water which must be potable. The use of basic manual drills is not recommended;
- the **tip of the mixer** must be in the shape of an **ogive** and not in a spiral one;
- always use a **classic scale** (at least 30 kilos) with precision of 1 kilo, otherwise use a **gradable container** of 7 liters in order to measure water.

The accuracy of the water used for the mixture is decisive for the quality of the work.

CAUTION : Incorrect percentages of the water make the product inapplicable.

CAUTION: **DRYFIT® rinzafo** is developed to be used as **first under-layer (rough coat) onto DRYFIT® arriccio** is applied. If **DRYFIT® rinzafo** is not used, performances will be not consistent and results in high-dampness and Soluble salts environments will be less significant.

For further informations, please read the Technical and Application Data Sheets of **DRYFIT® arriccio** and the depliant of **DRYFIT® SYSTEMA**, downloadable at www.trimaterials.com

clean the masonry from any cladding until the arrival to the bearing structure (concrete, bricks, stones);

when the wall is completely clean, scrape it off by using iron or sorghum brushes in order to remove all the inconsistent parts as much as possible.

later, dunk the masonry until it is totally wet. It is **very important to employ the material on the wet support** to guarantee the adhesion on building surface;

wherever possible, use a pressure washer to clean and eliminate the inconsistent elements on the surface that must be plastered..

Preparation of the support



DRYFIT[®] rinzaffo



Implementation

MATERIAL MIXING

CAUTION: to read carefully the PREPARATION OF THE SUPPORT paragraph in the page above

1. to add 5,50 liters of potable water in a clean 40 liters barrel
2. to place **DRYFIT[®] rinzaffo**, and mix it for 2 min leave it as it is for 60 sec
4. to add 1 liter of clean water and mix for 60 sec

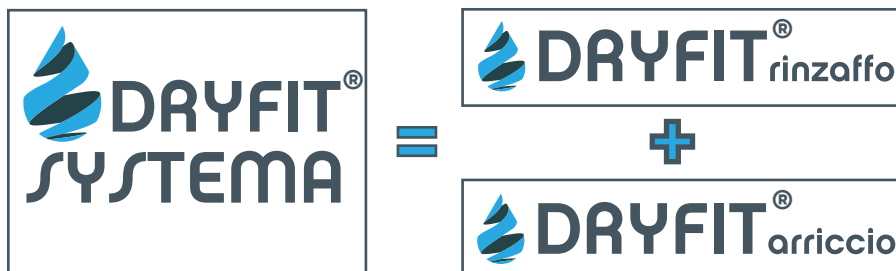
CAUTION: to mix **DRYFIT[®] rinzaffo** with other products is prohibited (additives, cement,...)

APPLICATION

Once material is correctly mixed, to apply **DRYFIT[®] rinzaffo** by hand with a trowel and/or a square trowel with at least a thickness of 3 mm

Material viscosity is strictly dependent by the water quantity used for the mix. Take care to use the correct amount of water

once the first layer of **DRYFIT[®] rinzaffo** is applied, add immediately **DRYFIT[®] arriccio** (on wet surface) to create a perfect adhesion between the two materials.



Compatibility

DRYFIT[®] rinzaffo is developed to be used as protective renovating and strengthening underlayer (rough coat) for the subsequent application of **DRYFIT[®] arriccio**

DRYFIT[®] rinzaffo is however compatible with other producers' renovating plasters based on limestone binder. The behavior during time cannot be granted if **DRYFIT[®] arriccio** is not used.

DRYFIT[®] arriccio is compatible with finishings made with limestone, cement, gypsum. The usage of gypsum in humid environments is not recommended.

DRYFIT[®] arriccio is compatible with paintings made with limestone, silicates, siloxane

CAUTION: To verify the compatibility with the producer of the finishing chosen

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