

TERAFLEX® GYPSUM BASED ADHESIVE

high strength gypsum based adhesive in conformity with EN 12860 for bricklaying partition walls from gypsum blocks, suitable for bonding gypsum moldings and ornaments on walls and ceilings

Scope of use

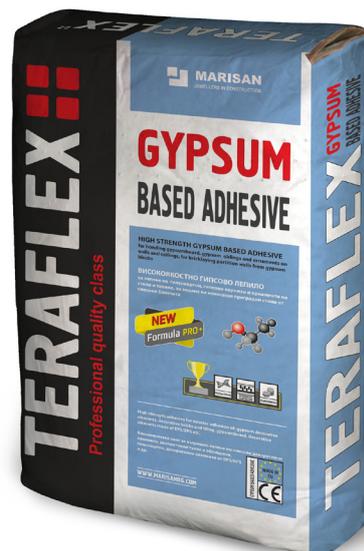
TERAFLEX® GYPSUM BASED ADHESIVE is modified gypsum based mixture with high adhesive strength. It is intended for building massive gypsum panels or blocks for not-load bearing partition walls, free standing protective structures, inspection manholes, etc., as well as their connection with adjacent construction elements.

The extended open time of more than 90 min provides full use of prepared mixture and leads to low consumption rate.

The unique gypsum modification provides high strength and elasticity to the connection between separate blocks as well as their connection with adjacent constructions.

TERAFLEX® GYPSUM BASED ADHESIVE is recommended for bonding gypsum moldings and decorative ornaments on walls, ceilings as well as filling joints in between.

The adhesive is suitable for smoothing and repairing rough or uneven bases of gypsum, lime-gypsum, lime or lime-cement. Can be used for fixing and filling cracks, repairing and finishing works in dry places.



Properties

high adhesion strength with the base	user-friendly paste-like mixture
Increased adhesive strength and elasticity	high initial strength during hardening
extended open time – over 90 min.	consumption rate efficiency

Composition

White homogenous gypsum based mixture, modifiers and special additives.

Packaging and Indicative consumption

Package:

5, 15 kg paper bags.

Indicative consumption:

about 0,5 kg/m² for 1 mm layer

Application rate is average and highly depends on the type and the structure of the base!

Expiration date and Storage

Store and transport in tightly closed original packing in a dry and cool place (preferably on pallets).

Avoid direct contact with the ground! Keep away from moisture! The product is good for use 12 months after production date in unopened original packing.

Instructions for Use

Base Preparation

TERAFLEX® GYPSUM BASED ADHESIVE adheres to various bases that are firm and do not contain separating substances (grease, bitumen, dust).

Gypsum plasterboards and blocks used for wall construction must be dry and clean. The area intended for adhesion (especially cut areas) must be dust free. Metal parts in gypsum blocks and panels (railings, distribution boards, pipes and others) must be at first processed against corrosion.

When the product is used for plastering or joint filling, the base must be clean, dry and stable. Initially, remove any unstable parts and layers with low mechanical resistance. The hard base of oil paint should be well processed with sandpaper and the dust must be removed afterwards. Clearcole and lime-based paint must be removed completely.

When applying at temperatures above 27°C, the surfaces must be wetted in advance with water.

Do not apply at air temperatures below 5°C and above 30°C!

Mixture preparation

In pure stainless vessel pour clean water, free from impurities. Then gradually add TERAFLX® GYPSUM BASED ADHESIVE in the ratio of 100 g of gypsum and 50 g of water. Stir the mixture with a low rev electric mixer (400-800 rpm) until obtaining a homogeneous mixture without lumps. If necessary add water or dry mixture to achieve the required density. Allow it to homogenize for about 3-5 minutes until complete dissolution of all components and then stir again.

Do not mix with gypsum, cement, sand and other materials!

The mixture is ready for use and retains its properties at least 90 minutes at temperature 20-25°C.

Application

The adhesive is applied on both gypsum boards along the entire length of the joint connection.

The lower panel is leveled horizontally along its entire length with the tongue up. The upper board is pressed against the bottom one so that the groove sinks well into the tongue of the bottom panel. Bonded boards should be leveled and stabilized in this position throughout the open time period (at least 90 min.). Adhesive that emerge from the joint can be removed after being slightly hardened.



Thoroughly applied adhesive ensures stability, sound insulation and fire resistant properties of the whole structure of gypsum boards.

The air and detail temperature should not fall below + 5°C before the complete drying of the adhesive!

Structures made of gypsum boards or blocks do not need plastering (neither from aesthetic, nor from fireproofing considerations). Usually they are partially (joint area) or completely mortared. Beforehand, it must be cleaned from any separating substances.

In case, the air is very dry and / or air and base temperature is very high, the added water in gypsum adhesive is extracted very quickly. This is disrupting the normal adhesive hydration as it prevents the formation of gypsum crystals which are bonding with the base. Consequently, the base should be moistened.

Full mortaring of gypsum panels or blocks is usually performed at a thickness from 0 to 3 mm. If it is necessary to mortar more than one layer, any subsequent layer must be applied after the complete drying of the previous one.

After completion of mortaring, ensure adequate ventilation of the surface!

Only after the complete drying of the mortared surface it can be sanded and subsequently painted or wallpapered. Mortared bases made of gypsum boards or blocks can be coated with wallpaper paint, dispersion, latex, oil paints and varnishes.

Do not apply paint based on lime or water glass!

If surface of the structure will be fully or partly covered with a ceramic, gypsum boards or blocks must not be mortared. Adhesive that emerge from the joint must be removed!

Attention!

Apply only in dry weather at temperature of the base and environment from +5°C up to +30°C and air humidity below 65%.

The freshly applied mortar must be kept from freezing and direct sunlight!

Do not use tools with rust, dirt or traces of other substances (paint, hardened plaster, solvents and others)!

Dirty tools and containers reduce the working time with the material!

Application of paint or other materials on the surface can be made only after complete hardening and drying of the gypsum!

A mixture that has already hardened can not be re-mixed with water and has to be discarded!

Hazard description:

Does not contain dangerous chemical substances!

Hazard symbol:



Attention!

Risk and Safety Statements	
H 315	Causes skin irritation.
H 319	Causes serious eye irritation.
H 335	May cause respiratory irritation.
P 402	Keep container dry
P 262	Avoid contact with eyes, skin or clothing.

Classification

Complies with the requirements of European and Bulgarian standards and measures up to:

European Standard	Class	Testing protocols
EN 12860	-	

Technical data

Testing protocols are issued by Notified Body (NB 1950) for compliance evaluation with Research Institute of Building Materials NIISM Ltd., Sofia.

Parameter	Measure	Testing method	Testing result
Tensile adhesion strength	N/mm ²	EN 13279-2	0,3
Bending tensile strength	N/mm ²	EN 13279-2	0,7
Compressive strength	N/mm ²	EN 13279-2	2,4
Connection time	Min	EN 13279-2	≥ 45
Content of gypsum binder (as CaSO ₄)	%	EN 13279-2	≥ 30
Reaction to fire	-	EN 13501	A1
Release of dangerous substances	-	EN 12860	NDP

The information contained in the current document is based on our knowledge and recent technical achievements and experience that we have at the time of the last version. The technical recommendations concerning application that we offer in order to facilitate buyers and those working with our products are non-binding and are neither grounds for legal contract relations, nor for additional obligations resulting from the purchase contract. They do not dispense buyers from the necessity to verify products' application according to the instructions for every specific use. We as manufacturers guarantee the quality of the product, but cannot influence the circumstances and methods of its use. Application of the product should be performed by qualified personnel.