

progeox

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PROGEOX

Bio-ecological thin bed adhesive based on natural hydraulic lime NHL 3,5 (EN459-1) for ceramic tiles and natural stone. Also suitable for heating screeds. Ideal for cotto. Thanks its bio-ecological properties it is ideal for application in civil environments.

bonding agents and adhesives





35±1%



5-35°C



30 min



6-8 mm



4 mm



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MAIN BIOLOGICAL CHARACTERISTICS

- Does not alter natural electrostatic conditions
- No harmful radioactive emissions
- No solvents or formaldehyde
- Mould-inhibiting
- Very high vapour permeability

MAIN ECOLOGICAL CHARACTERISTICS

- Recyclable
- Uses local raw materials
- Low energy manufacturing process
- Hygrothermally stable

INGREDIENTS

- Natural hydraulic lime
- Powdered limestone
- Calcined kaolin
- Protein binder
- Phylosilicates

ASPECT

- Beige powder

STORAGE

- 8 months in a dry place

FIELDS OF USE

- PROGEOX can be used indoors in residential buildings for fixing and laying floors and wall cladding in ceramic materials and natural stone
- Suitable for laying materials with >3% water absorption, such as cotto tiles, on heating screeds.

SUBSTRATES

- Cementitious and gypsum based plasters, cement-lime mortar, cementitious and anhydrite screeds.



OPERATIONS PRIOR TO APPLICATION

How to prepare the substrates

Cleaning:

Remove dirt, oil, grease, wax, traces of cement grouting, adhesive residues (if resilient cladding is removed). All dust and/or crumbling parts must be removed just before application.

Diagnosis:

If the substrate is new, it is very important to know exactly how it has been weathered. This may be expressed in days or residue humidity, depending on the nature of the actual substrate itself. The more frequent cases with their relative ageing periods are listed in the table below.

HOW TO PREPARE THE MIXTURE

PROGEOX should be blended with 8.75 l. of clean water per 25 kg bag (35%) until a homogeneous, lump-free mixture is obtained. It is advisable to use a drill at low speed (approx. 500 rpm) as a high speed will reduce the mechanical characteristics of the product. Wait 5-10 minutes, then stir the product briefly again and start applying.

TILE FIXING

Do not spread the adhesive with the serrated side of the trowel, but begin by initially applying it with the smooth part. This will ensure that the product fully contacts the substrate and will allow you to use the product's adjustability and open time to the best advantage. Now spread the product with a suitable serrated trowel (serrations of not more than 8 mm with PROGEOX).

Always check to make sure that a surface film does not form on the adhesive when spread. If this happens, just pass the trowel over it again with a little fresh product. It is always better to check the percentage of adhesive/tile contact (it should be at least 70%) by removing a tile after having fixed and bedded it.

AMOUNT REQUIRED			
Trowel	6x6 mm	8x8 mm	10x10 mm
Progeox	3 Kg/m ²	4 Kg/m ²	5 Kg/m ²

The amounts refer to sole use of the trowel and to flat substrates.

WARNINGS AND RECOMMENDATIONS

- if natural stone is to be fixed, first check to make sure that the slabs remain dimensionally stable in the presence of water
- absorbent surfaces must be wetted with water on hot and/or windy days
- always spread a double layer on extruded materials
- do not add anything to the product that is not specified in this brief

Do not apply to:

- metal, vinyl, wood, ceramic floor surfaces, concrete

TECHNICAL SPECIFICATIONS	VALUE	REQUISITE	STANDARD
Aspect	beige powder		
Curing time	10 min		
Pot life	*6 h	°30 min	EN 1346
Open time	*30 min		
Adjustability time	*60 min		
Floor tiles can be grouted after	* after 24 - 36 h		
Wall tiles can be grouted	* after 8 - 10 h		
Can be walked over after	* after 24 - 36 h		
Surface can be used after	* after 14 days		
Initial tensile bond	° 0,8 N/mm ²	°0,5 N/mm ²	EN 1348
Bond after immersion in water	° 0,6 N/mm ²	°0,5 N/mm ²	EN 1348
Compressive strength	5 N/mm ²		EN 196/1

° according to standard "EN 12004"

* these times refer to a temperature of 23°C-50% R.H.. They are shorter at higher temperatures and longer at lower temperatures.

SPECIFICATION

Ceramic floor and wall tiles should be laid and fixed using a thin-bed biocompatible powder adhesive with natural lime and protein binder, such as Technokolla's Progeox, applicable in layers up to 4 mm thick on conventional substrates.

Technokolla reminds you to examine the **"notes"** document that completes the information in this data sheet. The document can be downloaded in the pdf format.

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