

Technical qualities

LIMETOUGH is a coloured, decorative, vapour permeable, lime putty based coating for interiors and exteriors. The product allows the quick and easy realisation of a beautiful decorative finish similar to that commonly known as "marmorino". The thickness of LIMETOUGH makes it possible to decorate whilst at the same time covering small imperfections, thus saving on the cost of screeding the surface. The product creates a stable link with the surface, preserving the vapour permeability of the whole wall structure. The product also impedes the development of moulds and bacterial colonies. LIMETOUGH has a low odour level, is non inflammable and is friendly to both humans and the environment.

Ideal use

Interior walls of prestigious buildings, ventilated environments like livings and bedrooms. The usage in bathrooms and kitchens (where walls can receive dirty or soapy water) is recommended only pairing with a water repellent protective coating, LIMECOAT by Mutina (apply 3 coats, after 7 days from the application of LIMETOUGH). Strictly avoid shower stall walls.

Surface preparation

The surface must be dry and mature, new plasters should be left to mature for at least 30 days to allow complete carbonation of the support. Carefully brush or strip the surfaces and remove loose and flaking material. In case of restoration work, water infiltrations and leakages must be repaired. Before applying the product, apply one coat of LIMEBASE by Mutina (diluted 50-80% with water), pigmented primer that prepares the surface and allows a homogeneous absorption. Wait 6÷8 hours before applying LIMETOUGH.

The application

Yield	1÷1.5 Kg/m ² in two coats (Leave 8 hours between coats)
Primer	LIMEBASE by Mutina. Apply one coat, diluted 50÷80% with water and wait 6÷8 hours before applying LIMETOUGH
Dilution	Ready to use
Application tools	Inox steel trowel
Protective coating	LIMECOAT by Mutina (after 7 days from application of LIMETOUGH, for walls subject to dirty or soapy water)
Application method	+5°C ÷ + 36°C (with relative humidity not exceeding 80%)
Drying time until touch dry	2,30 h (temperature=20°C with relative humidity at 75%)
Total drying time	24 h (temperature= 20°C with relative humidity at 75%)
Tools cleaning	water

The product

Composition	Slaked lime putty, selected marble grains fillers, titanium dioxide, iron oxide based inorganic pigments and coloured earth.
Specific weight	1,5 kg/l
pH	12,5 ÷ 13,5
Granulometry	max= 0,3mm
Storage temperature	+2°C ÷ +36°C. Keep from freezing
Reaction to fire	Euroclasse B-s1, d0 (EN 13501:2009)
Water absorption	Classe W2 (Medium Permeability) w = 0,42kg/(m ² h0,5) (EN 1062- 3:2001)
Permeability to water vapour	Classe V1 (High Permeability) Sd=0,08 m (EN ISO 7783-2:2001)
Measurement of bond strenght by pull off	f _h = 0,7 MPA (min. f _h > 0,3 MPA) (EN 1542:2000)
Durability	f _h = 0,7 MPA (min. f _h > 0,3 MPA) (EN 13687-3:2003)
Thermal conductivity	1,28 W/mK (P=90%) (EN 1745:2005)
Emission limits of Volatile Organic Compounds (VOC), according to directive 2004/42/CE	Classification: A/a VOC: 14g/l (max) Phase II limits (from 1.1.2010): 30g/l
Packaging	5kg, 20kg cans

Storage conditions

Keep the product only in the original container. Keep the container close, in a well ventilated location, away from direct sunlight

Safety information

The product is free of heavy metals such as lead or chrome. It does not contain toxic solvents, aromatics or chlorides. There is no risk of any dangerous polymerisation. The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) and subsequent amendments and adjustments. No special arrangements are required for the storage, movement and transportation of the product; the

containers, residue, eventual spilt material should be cleaned up using absorbent inert material such as sand, soil etc. etc. and then disposed of in accordance with the regional and national regulations in force at that time. Transportation must be carried out in accordance with international agreements.

Specifications

The surface must be dry and mature, new plasters should be left to mature for at least 30 days to allow complete carbonation of the support. Carefully brush or strip the surfaces and remove loose and flaking material. In case of restoration work, water infiltrations and leakages must be repaired. Before applying the product, apply one coat of LIMEBASE by Mutina (diluted 50-80% with water), pigmented primer that prepares the surface and allows a homogeneous absorption. Wait 6÷8 hours before applying the product LIMETOUGH by Mutina. LIMETOUGH must be applied in two coats, leaving 7÷8 hours between coats, using an inox steel trowel. All must be carried out in accordance with the norms of application, at a cost of..... /sqm inclusive of materials and labour.