



Solutions for sustainable mortar formulation



Building lime innovation



Industrial mortars*

Different actors, specific needs



DESIGNER & END-USER

- Energy efficiency
- Healthiness
- Aesthetics
- Durability
- Natural product

CRAFTSMAN

- Productivity
- Workability

PRODUCER

- Cost-efficiency
- Technical performance

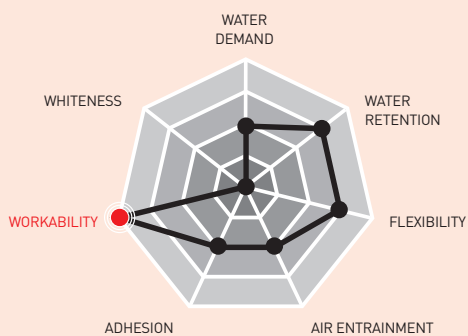
* Including Dry Mix, Wet Mix and Building Chemistry



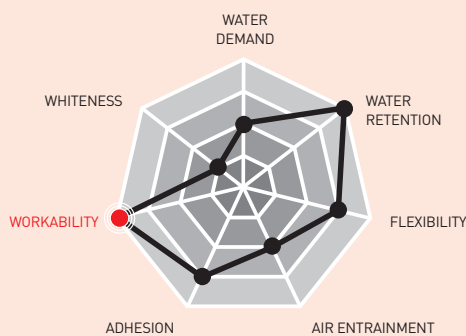
Different applications, specific requirements



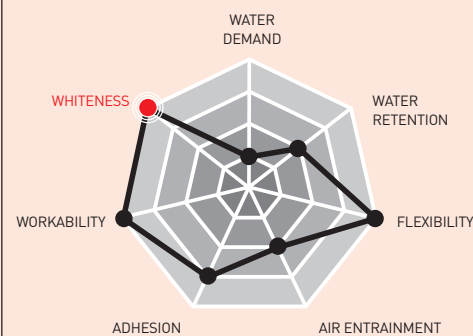
MASONRY



UNDERCOAT

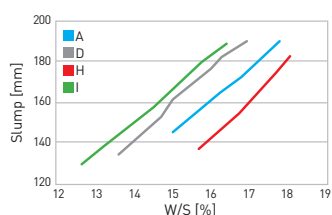


FINISH COAT



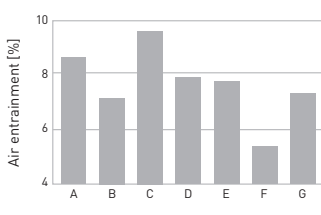
Tradical® range performance overview

WATER DEMAND



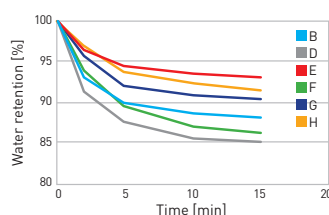
Variation of slump of a 1:2:9 mortar formulation ("OPC: lime: sand" by volume parts) for four different Tradical® limes

AIR ENTRAINMENT



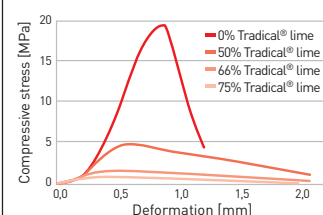
Air entrainment into a 1:1:6 mortar formulation ("OPC: lime: sand" by volume parts) for different Tradical® limes

WATER RETENTION

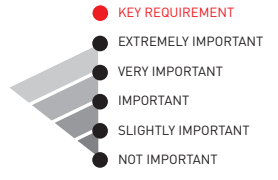


Water retention of a 1:2:9 mortar formulation ("OPC: lime: sand" by volume parts) for different Tradical® limes

FLEXIBILITY



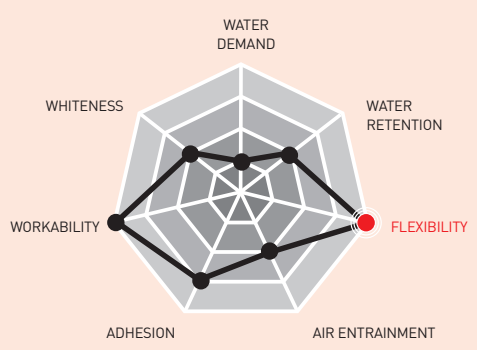
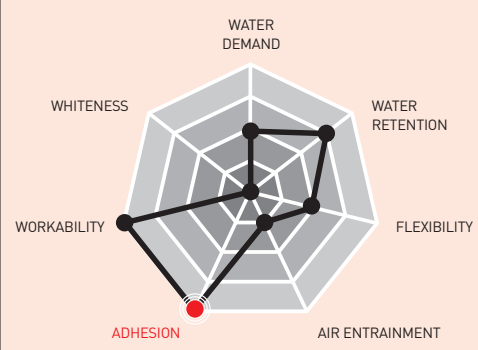
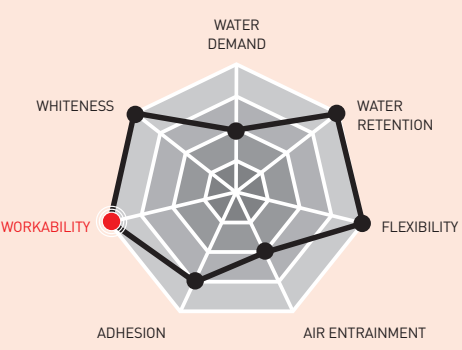
Compressive stress vs. deformation for a 1:3 mortar formulation (binder: sand by vol.) where the binder is composed of OPC and an increasing content of Tradical lime (vol. %).



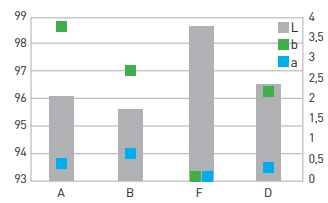
MONOCOUCHE

ETICS ADHESIVE

ETICS BASECOAT

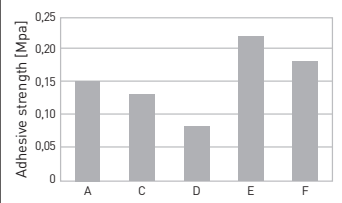


WHITENESS



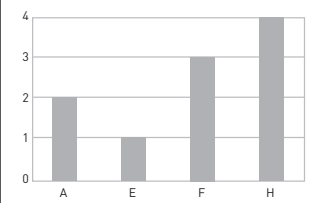
Variation of brightness (L, left axis) of four Tradical® lime hydrates and their green/red (a, right axis) and blue/yellow components (b, right axis)

ADHESION



Bond strength to autoclaved aerated concrete (AAC) of a 1:1:6 mortar formulation ("OPC: lime: sand" by volume parts) for five different Tradical® limes

WORKABILITY



Rating of creaminess from 1 (no) to 4 (high) in a 1:2:9 (OPC: lime: sand) formulation for different Tradical® limes

Tradical®, a natural functional binder

Tradical® products present various sizes, morphologies and surface areas leading to a variety of physico-chemical mortar properties.



WATER RETENTION

expresses the ability to retain moisture of a mortar subjected to suction.

AIR ENTRAINMENT

measures the creation of air bubbles and porosity in the paste.

WATER DEMAND

is the amount of water required to obtain a targeted fresh paste consistency.

WORKABILITY

refers to a complex combination of properties of the fresh paste in use, including: water retention, air entrainment, creaminess, stickiness, etc; the interaction of which is subject to the individual appreciation of the professional applicator.

WHITENESS

plays an important role in the aesthetics of the applied product.

FLEXIBILITY

expresses the ability of a mortar to absorb deformation before breakage.

ADHESION

measures the bond between the applied product and the substrate.

Thanks to our process optimization, numerous production sites and a variety of raw materials we are able to control and vary these properties to offer a wide product range adapted to your requirements.

Tradical[®],

key mineral contributor to different applications...



MASONRY



UNDERCOAT



FINISH COAT



MONOCOUCHE



ETICS
ADHESIVE



ETICS
BASECOAT

... through the **Lhoist offer**

We provide you with tailored solutions to meet your individual requirements through formulation expertise and differentiated reagents.



EXPERTISE

to provide you with reliable and effective solutions



REAGENTS

to meet your specific needs



SERVICES

to assist you in using reagents efficiently



Tradical[®], an evolving range of products used in:

BLOCKS

- Aerated Autoclaved Concrete (AAC)
- Sand Lime Bricks (SLB)

CONCRETE

- Ready Mix
- Precast
- Manufactured

INSULATION SYSTEMS

- Glass
- Hemp lime concrete
- Fire and heat insulation panels

FACTORY MADE MORTARS

- Dry mix
- Wet mix
- Building chemistry

SITE MADE MORTARS

OTHERS

- Grouts
- Shingles
- Glues
- Ceramics
- Plastics

Lhoist, your global partner for the building and construction industry

Lhoist is a multi-national company, expert in lime, dolime and mineral products. The diversity of our product range and our industrial facilities around the world allow the Group to be a key partner in multiple industries and business sectors.



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