



Product information

NomeX[®] MOX

Expansive additive for reduced thermal shrinkage of cement-based products

Description

NomeX[®] MOX is a highly efficient addition, made up from a special mineral mix and milled to the particle size of cement. NomeX[®] MOX has been modified to reduce and compensate the thermal shrinkage of cement-based construction products.

NomeX[®] MOX reacts with water with expanding volume developing a strong temperature increase.

Chemical composition (M.-%, approx.)

CaO	> 65
MgO	< 32

Physical properties (approx.)

Appearance	beige powder	
Specific density	3,5 g/cm ³	
Apparent density loose	~ 800 g/l	
Particle size	> 200 µ	< 1 %
	< 32 µ	> 70 %

Function

The mineral parts of NomeX[®] MOX react with water producing new hydration products. Together with the hardening phase of the cement these will produce a volume increase (expansion). This structure contains a pre-stress that will counteract the tensioning stresses of concrete in its hardening phase. Concretes with NomeX[®] MOX have to be kept humid for five days to get a good expansion. The maximal expansion happens in the first 48 hours.

Advantages

Depending on the addition level:

- reduced shrinkage
- increased impermeability to water
- increased mechanical strength

and ease of handling. Please note the danger signs.



Application

Names[®] MOX may be used in a variety of applications, such as

- high density mortars and concrete
- industrial flooring
- repair mortars
- self-levelling compounds
- anchor mortars

To give the required expansion, it is necessary to assure enough availability of water and the use of curing compounds.

Addition level

Typical addition levels are 2 – 4 % on the cement weight. Expansion and reduced shrinkage are proportional to the addition level. It is highly recommended that laboratory trials should first be carried out to determine the correct addition level of Names[®] MOX.

A too high addition level of Names[®] MOX will result in extremely strong expansion, with reduced strength, high porosity, and reduced frost resistance.

Compatibility

Names[®] MOX is compatible with Portland cement and hydraulic binders, including ground blast furnace slag, fly ash and hydrated lime.

Health & Safety

Names[®] MOX is alkaline and should be handled like other cements. Avoid contact with skin or eyes and wear protective gloves and goggles. In case of contact with eye flush immediately with plenty of water. Refer to Material Safety Data Sheet for full details.

Storage

Names[®] MOX is sensitive to moisture and should be stored in cool, dry conditions.

Packing

In Big Bags of 1000 kg. Bulk is possible

The above information and recommendations are based upon our experience and are offered merely for advice. They do not absolve the consumer from making his own tests. Responsibility for damage arising from the use of our products cannot be derived from the recommendations given. The observance of any intellectual property rights of third parties is the responsibility of the consumer in each case.

MDS Names[®] MOX 2021 en