



# Mapeproof Seal

**Natural sodium bentonite with a high content of montmorillonite, high swelling capacity, high water absorption capacity**



## WHERE TO USE

**Mapeproof Seal** is used to locally strengthen **Mapeproof** bentonite waterproofing sheet applied on structures below ground level.

### Some application examples

**Mapeproof Seal** is used for:

- locally strengthening **Mapeproof** waterproofing sheet applied on structures below ground level;
- filling voids and cavities on horizontal surfaces before applying **Mapeproof** bentonite sheet;
- strengthening repairs in **Mapeproof** bentonite sheet.

## TECHNICAL CHARACTERISTICS

**Mapeproof Seal** is a natural sodium bentonite powder with a high content of montmorillonite, characterised by its high swelling capacity, high water absorption capacity and long-lasting, high chemical stability. When completely hydrated, **Mapeproof Seal** forms a high-density gel with low permeability to fluids, which is used as a complementary element when applying **Mapeproof** bentonite waterproofing systems.

**Mapeproof Seal** is applied dry on horizontal surfaces.

## RECOMMENDATIONS

Do not use **Mapeproof Seal** with wet weather.

## APPLICATION PROCEDURE

When there is piping or other elements running through a foundation slab, such as foundation piles, sprinkle **Mapeproof Seal** in the areas where the **Mapeproof** sheets (cut and trimmed to shape) are to be applied. This provides further reinforcement to the waterproofing system in those areas.

Similarly, where reinforcement rods pass through the **Mapeproof** bentonite sheet, sprinkle the area with **Mapeproof Seal**, apply a piece of **Mapeproof** bentonite sheet sealed with **Mapeproof Mastic** around the reinforcement rods.

## CONSUMPTION

1 kg/m of product, according to the characteristics of the substrate.

## PACKAGING

25 kg paper bags.

## STORAGE

24 months in its original packaging; protect from freezing weather.

## SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapeproof Seal** is not considered hazardous according to current norms and guidelines regarding the classification of mixtures. We recommend using protective gloves and goggles, and to take the usual precautions for handling chemical products. For further and complete information about the safe

# Mapeproof Seal



Application of Mapeproof Seal around a pile head



Application of Mapeproof Seal around through piping



Application of Mapeproof Seal before a piece of Mapeproof bentonite sheet

## TECHNICAL DATA (typical values)

### GENERAL AND RHEOLOGICAL CHARACTERISTICS

Sieve residue (200 mesh 75 µm) (%):	20-24
Moisture content (%):	10-12
Montmorillonite (XRD) (%):	> 95
Free swelling (ASTM D5890) (ml/2g):	> 27
Fluid loss (ASTM D5891) (ml)	< 18
Absorption of methylene blue (mg/g)	> 400
Liquidity limit (UNI 10040) (%):	> 550
Water absorption (ASTM E946/43) (%):	> 750
1500/1000 Marsh viscosity:	38-40"
pH of filtered water:	9
Thickness of compression-bending stressed panel (mm):	> 1.5

use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

#### WARNING

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application: for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application: in every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)



**All relevant references for the product are available upon request and from [www.mapei.com](http://www.mapei.com)**



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