



# Idrostop Soft

**Hydro-expansive,  
high-flexibility, bentonite  
jointing profile for  
waterproofing second  
pours of concrete**



## WHERE TO USE

**Idrostop Soft** is used to waterproof construction joints in civil and industrial construction.

**Idrostop Soft** may be applied on both horizontal and vertical concrete surfaces using hybrid elastic adhesives such as **Mapeflex MS45** or **Ultrabond MS Rapid**.

## Some application examples

**Idrostop Soft** is used for:

- sealing horizontal and vertical second pours of concrete in structures below ground level;
- sealing penetrations (piping, foundation piles, etc.) in **Mapeproof** bentonite membranes;
- sealing penetrations (piping in PVC, steel, etc.) in cast concrete phases.

## Advantages

- Easy application, bonded in place using **Mapeflex MS45** or **Ultrabond MS Rapid**.
- Exceptional adherence and stability with the substrate.
- High swelling capacity, also fills honeycombing and shrinkage in concrete.
- Exceptional elasticity and plasticity.
- High resistance to hydraulic pressure.

## TECHNICAL CHARACTERISTICS

**Idrostop Soft** is a hydro-expansive jointing profile made from a mixture of natural sodium bentonite and butyl rubber, specifically developed for waterproofing cast concrete. This special mixture forms joints with exceptional elasticity and stability that allow them to adapt to the surfaces with which they come into contact.

Thanks to the high expansion capacity of **Idrostop Soft**, it compensates small voids and gaps formed during pouring operations.

Also, thanks to its flexibility, it adapts to any type of substrate to form an efficient seal.

Adhesion to surfaces is guaranteed by the high performance characteristics of **Mapeflex MS45** and **Ultrabond MS Rapid**.

**Idrostop Soft** is available in size 25x20 mm x 5 m in 6-roll boxes.

## RECOMMENDATIONS

Do not use **Idrostop Soft** in the following cases:

- as a structural or expansion joint;
- if the structure is immersed in water when the jointing profile is applied. Eliminate any free-standing water from the surface beforehand;
- if the application surface is highly contaminated with acid or solvent. In such cases, please refer to the Technical Services Department;

# Idrostop Soft



Extruding Mapeflex MS45 prior to applying Idrostop Soft in second pours



Applying Idrostop Soft on vertical surfaces

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Shape:	pre-formed profile
Colour:	light blue
Size (mm):	25x20
Weight (kg/m):	0.8
Density (ASTM D71-84) (kg/dm <sup>3</sup> ):	1.48
Solubility in water:	non-soluble
Odour:	none

### APPLICATION DATA (at +23°C - 50% R.H.)

Application temperature range:	from -15°C to +60°C
Functional temperature range:	from -45°C to +120°C
Waiting time before casting concrete:	not required

### TECHNICAL CHARACTERISTICS

Expansion in water after 96 hours in compliance with JIS K6258:1993 norm (%):	> 250
Expansion in distilled water after 96 hours in compliance with JIS K6258:1993 norm (%):	> 400
Expansion pressure with total confinement (N/mm <sup>2</sup> ):	≥ 0.70
Resistance to hydrostatic pressure:	up to 80 m of water column = 8 bars
Elongation at failure (%):	7500
Maximum permitted deflection:	no cracking after forced bending to +180°C

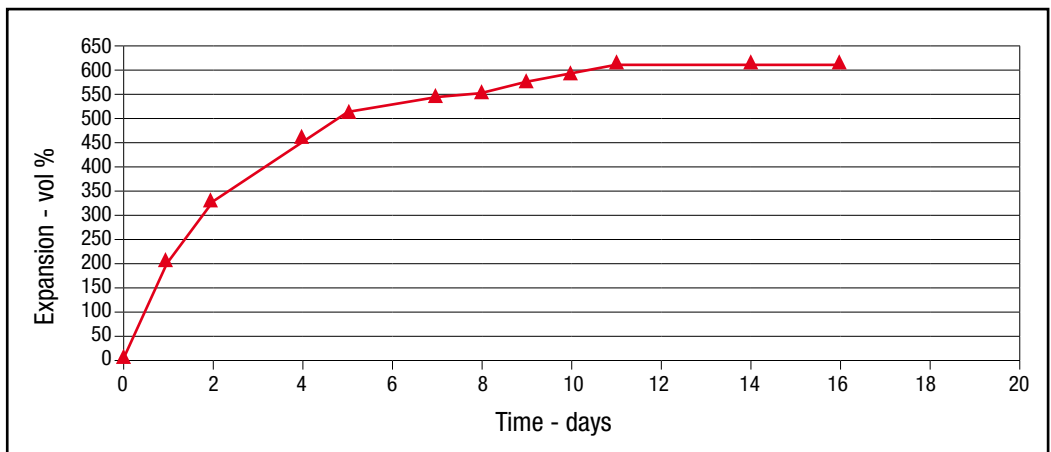


Fig. 1: graph of the volumetric expansion rate of Idrostop Soft in distilled water at +25°C in compliance with JIS K6258:1993 norm

- if the area confined by the formwork is less than 8 cm on each side of the profile;
- if the spacers for the steel reinforcement are less than 5 cm from the surface where **Idrostop Soft** is to be applied;
- if the spacers are resting on the substrate.

## APPLICATION PROCEDURE

### Substrate preparation

**Idrostop Soft** must only be applied on clean, sound substrates. Brush the surface to remove all traces of dust, dirt, uneven areas, cement laitance and all other debris resulting from casting operations. **Idrostop Soft** may be applied on slightly damp surfaces.

### Application

**Idrostop Soft** may be applied on both horizontal and vertical concrete, metal and PVC surfaces after cleaning. Apply the jointing profile using **Mapeflex MS45** or **Ultrabond MS Rapid**, elastic hybrid adhesives.

To form end joints in the profile, overlap the ends of each length by 6 cm, squeeze the ends as firmly as possible and bond them together using **Mapeflex MS45** or **Ultrabond MS Rapid**.

The thickness of the concrete around the jointing profile must be at least 8 cm on each side. The surrounding temperature must be between -15°C and +60°C.

### CONSUMPTION

Consumption depends on the length of the construction joint to be waterproofed.

## PACKAGING

**Idrostop Soft** is supplied in cardboard boxes:  
 net weight of box: 23 kg  
 number of rolls per box: 6  
 length of each roll: 5 m  
 section of profile: 25x20 mm

## STORAGE

**Idrostop Soft** may be stored for limitless time if stored in a covered, dry area off the ground at temperatures between +10°C and +40°C.

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)**



Applying **Idrostop Soft** on horizontal surfaces

**Idrostop  
Soft**



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