

# Elastotex 250 Combi

## Waterproofing band in Hypalon, 25 cm, for expansion joints



Strap with high resilience and resistance, with an overall width of 25 cm, consisting of a special elastomeric layer in Hypalon, resistant to razing and wear and tear, for use in combination with the epoxy resins paste Syntech AS 21 or Syntech AS 31, for waterproofing watertight expansion joints in buildings, works and structures below the aquifer level or to ensure the water sealing of structural connections even off the ground. Specific applications for industrial or infrastructural use.

**CUSTOMS CODE:** 3920 1089

**COMPONENTS:** Single-component

**APPEARANCE:** Tape

**AVAILABLE COLORS:** Gray

**PACKAGING AND DIMENSIONS:** Roll 20 m

## FEATURES AND BENEFITS

The excellent adhesion with epoxy adhesives such as Syntech AS 21 (AS 31) is greatly improved thanks to the perforated edges that allow a collaboration between the lower layer and the upper layer of resin. SYNTECH AS epoxy fillers allow the gluing of the Elastotex 250 Combi strip on various types of substrates (see paragraph "Preparation of substrates") including pvc supports (see technical document "Adhesion test on pvc sheath"). The strip is flexible and deformable (even at low temperatures) and extremely resistant to traction, root aggression, atmospheric agents and many chemicals. It is easy to lay and this allows for quick, safe and non-hazardous applications for the applicator.

## FIELDS OF APPLICATION

Waterproofing expansion joints, including large ones, subject to considerable work movements, and of natural joints and fissures, also in conditions of hydraulic counter-thrust, in tunnels, silos, tanks, pools, basements, roofing, prefabricated coverings, road joints and hydraulic works in general.

## ALLOWED SUPPORTS

Concrete - Prefabricated concrete - Metal surfaces

## PREPARATION OF SUPPORTS

The concrete surfaces must certainly be free of incoherent parts, traces of grease, release agent, paints by sandblasting, shot peening, grinding or milling, followed by careful removal of dust. The cement conglomerates must have a minimum tensile strength of 1.5 N / mm<sup>2</sup>. The curing of the concrete must be at least 3 - 6 weeks depending on the climate. The metal surfaces must be perfectly clean and free from rust, calamine or lamination residues, by sandblasting or equivalent mechanical treatment followed by careful removal of dust (on metal surfaces pay maximum attention to the dew point). The polymeric surfaces must be roughened by sanding. Work areas, edges, etc. they must be delimited with adhesive tape.


## MODE OF USE

Mix the epoxy resin SYNTECH 21 (AS 31) thoroughly in the pre-determined amount as required (on average roughly 1 kg per meter). Spread the epoxy adhesive prepared as described above, on the sides of the joint to be waterproofed by toothed adhesive spreader, kept constantly clean, taking care to obtain uniformity of the thickness applied that must not be less than 2 mm. Unroll and apply the Elastotex 250 Combi strap, on the fresh adhesive spread, pressing it against the resin, stretching the ends by hand, taking care to avoid wrinkling and air bubbles, until the underlying resin leaks out from the holes on the strap. Apply with a metal filling knife a second layer (at least 2 mm) of Syntech AS 21 (AS 31) adhesive at the edges of the strap, already impregnated, in order to protect it permanently from accidental damage and to obtain certain monolithicity of the end to the support. For the joint between two adjacent straps, weld the end flaps for overlap and solder them using a special hot air welding machine. For additional security of the seal, a small layer of Syntech AS 21 (AS 31) should be applied on the heated flaps. The final system resistances will be reached after about 7 days after laying, but already after 24 hours at 20°C, values equal to 60-70% of the final performances can be obtained. In any case the performance after 24 hours will be much greater than those of a high quality concrete.


## APPLICATION METHODS

Apply by hand - Spatula - Notched finishing trowel

## KEY FEATURES

 Shelf-life: 12 months

 Width: 250 mm

 Temperature of use: -30 / +90 °C

## TECHNICAL SPECIFICATIONS

EN 1928 B

Resistance to water pressure **>4.0 bar**

Tensile adhesion with gluing using Syntech AS 21 **> 7 N/mm<sup>2</sup>**

EN 4102

Fire resistance **B2**

EN 12310-2

Resistance to tearing **100 N**

EN ISO 527-3

Breaking load longitudinal **241.4 N / 15 mm**

EN ISO 4892-3

UV resistance **6500 h**

EN ISO 527-3

Breaking load lateral **221.8 N / 15 mm**

Unit weight **988 g/m<sup>2</sup>**

EN ISO 527-3

Power absorption at 25% elasticity lateral **42.7 N/mm**

Thickness **1.0 mm**

EN ISO 527-3

Power absorption at 50% elasticity lateral **49.2 N/mm**

EN ISO 527-3

Extension break longitudinal **900 %**

Shore A

Hardness **87**

EN ISO 527-3

Extension break lateral **900 %**

## CONSUMPTION

1 metre of Elastotex 250 Combi for each linear metre, being careful to overlap the rolls of approximately 5-10 cm in correspondence with the edges of the band to guarantee the permanent water tightness of the system. Consumption of epoxy resin for bonding about 1.5 kg / m.

## STORAGE AND CONSERVATION

Store the product in its original packing, in a fresh and dry environment, avoiding frost and direct sunlight.



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ADDITIONAL CONTENT



Chemical Properties:	Resistance after storage over 28 days by room temperature in following chemicals	+ = resistant 0 = weakened - = non resistant
Hydrochloric acid 3%	Internal	+
Sulphuric acid 35%	Internal	+
Citric acid 100g/l	Internal	+
Lactic acid 5%	Internal	+
Potassium hydroxide 3% / 20%	Internal	+ / +
Sodium hypochlorite 0,3g/l	Internal	+
Salt water (20g/l Sea water salt)	Internal	+



## WARNINGS AND PRECAUTIONS

The general information, along with any instructions and recommendations for use of this product, including in this data sheet and eventually provided verbally or in writing, correspond to the present state of our scientific and practical knowledge. Any technical and performance data reported is the result of laboratory tests conducted in a controlled environment and thus may be subject to modification in relation to the actual conditions of implementation.

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