



# SIKA AT WORK

## ROOF REFURBISHMENT WITH LIQUID APPLIED MEMBRANE FACTORY OF LEAF ITALY, S.R.L

ROOFING: Sikalastic®-821 LV, Sikalastic®-621

BUILDING TRUST



# FACTORY OF LEAF, ITALY, S.R.L.



## PROJECT DESCRIPTION

Leaf Italy S.r.l (Sperlari) is a leading Italian company in the confectionery industry. The old roof of the factory needed to be refurbished so that it is waterproofed, additionally increase of thermal efficiency would be needed by applying a solar reflective coating to reduce cooling costs of the factory. The substrate consisted of an aged slated bituminous felt which has shown local infiltration.

## PROJECT REQUIREMENTS

This project is located in a particular geographical area where there is frequent and sudden rain, therefore a fast applicable system without the need to strip the existing waterproofing layer of the existing roof was required so that it wouldn't interrupt the manufacturing operation. Due to the extreme weather conditions at the foot of the Alps with large daily variations in temperature the specified system had to feature high elasticity to resist the loaded stress. In order to improve the thermal insulation of the roof, the specification required a preliminary insulation layer consisting of a 2 component self-expanding polyurethane foam, followed by a fast curing, highly elastic waterproofing system, with a highly reflective top coat.

## SIKA SOLUTION

After a prior cleaning using high pressure hydro washing, in order to improve the thermal insulation properties of the roof, approx. 20 mm self-expanding polyurethane foam was applied to the full area, before the basecoat was applied. As basecoat Sikalastic®-821 LV was applied with a thickness of approx. 2 mm by means of suitable equipment which is used for spraying two component products. For a UV-resistant and highly solar reflective top coat, Sikalastic®-621 was applied only 30 min after the basecoat was finished by means of airless spray. Due to the fast curing progression of Sikalastic®-821 LV and the high efficiency of spray application the contractor was able to realize the entire roof area on only one day. Subsequent measurements of the roof surface temperature have shown that Sikalastic®-621 can significantly reduce the surface temperature up to over 30 °C compared to the uncoated areas.

Sikalastic®-621 (RAL 9016 Traffic White) contributes to the achievement of Credit 7.2 "Heat Island Effect - shell" for the sustainability category of the Project (SS). SRI index  $\geq 78$ .

## PROJECT PARTICIPANTS

**Owner:** Leaf Italian S.r.l. (Sperlari)  
**General contractor:** TPA Technical Product Application & Marketing S.r.l. - Milan  
**Sika organization:** Sika Italy S.p.A.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



**SIKA SERVICES AG**  
Tueffenwies 16  
CH-8048 Zurich  
Switzerland

**Contact**  
Phone +41 58 436 23 68  
Fax +41 58 436 23 77  
www.sika.com

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