

Case Study

Project/customer name:	Metal roof production hall
Year of application:	2014
Location/country:	Althofen / Austria
Building type:	Production hall
Authorized contractor:	PCB Beschichtungstechnik
Additional project details:	Sealing of metal roof with Metal Coat finish

General view:



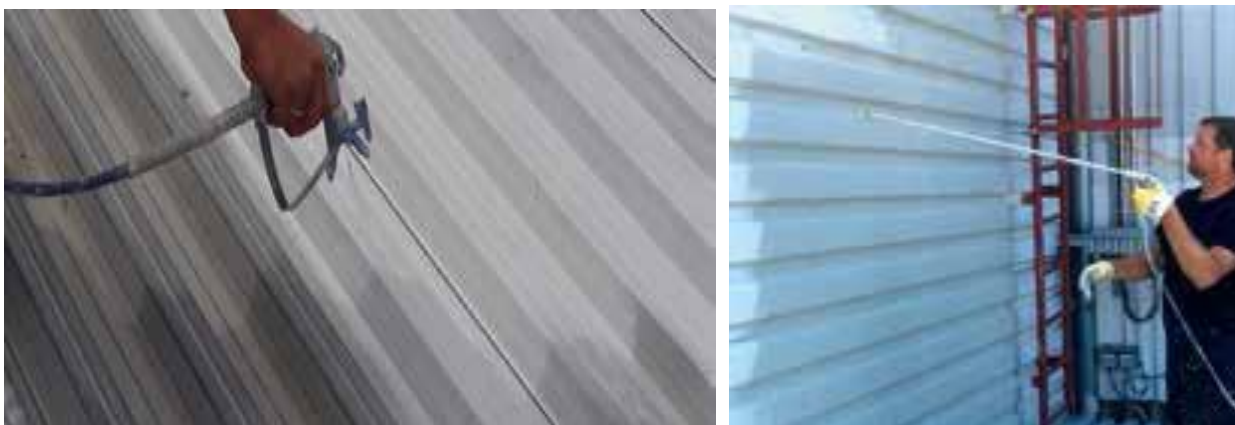
Challenge:

- The metal roof had numerous leaks and was no longer functional. To prevent the occurrence of more massive damage, renovation should be carried out quickly and without complete demolition.
- The production operation did not have to be interrupted, as this would have meant high financial losses.
- The application of the waterproofing had to be possible due to the rainy summer, even in adverse weather conditions.
- Finally, it was also important to achieve an appropriate appearance.



Solution:

- After high-pressure water blasting of the trapezoidal sheet, the surfaces were primed with Triflex Metal Primer in a spray application.
- The details and connections were sealed with Triflex ProDetail, which adheres perfectly to this surface, therefore no removal was required.
- The product is waterproof after only 30 minutes, which is why the weather conditions did not have a major impact and the renovation could be carried out quickly.
- A final coating of all surfaces with Triflex Metal Coat, also in spray application, made the roof look like new.



Products used at a glance:

Triflex offers liquid PMMA* based resins (e.g. ProDetail for details or ProTect for areas):

1. Substrate
2. Primer, if necessary
3. Waterproofing layers
 - a) Triflex ProDetail (2kg / sqm)
 - b) Triflex Special Fleece
 - c) Triflex ProDetail (1 kg / sqm)
4. Finish, if wanted

* Polymethyl methacrylate



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Main benefits (European Guideline ETAG 005):

- 25 years estimated working life performance
- Fast curing time and rainproof after only 30 minutes
- Application possible till humidity of 99% and withstands surface temperature after application up to 90° C
- A liquid seamless solution that fits to any structure with complex geometry
- Adherence to any surfaces (Aluminum, steel, plastic, glass, bitumen, concrete, ...)
- Solvent free, environmental friendly and with no risk to health
- High resistance to chemicals, roots and rhizome, alkali and hydrolysis
- Cold application with no flame and flame retardant
- Highly UV resistant (1000 MJ/m² = 325 days)
- Easy to impose loads after application (for particular demands as green roofs)