

APPLICATION NOTE

Application of FISCHER products

AN013en

Hot-Dip Galvanisation as Corrosion Protection

For protection against the elements, exposed steel parts require an anti-corrosion coating such as hot-dip galvanisation. To this end, a new directive for CE labelling of steel products and their corrosion protection will become effective in 2014. Product liability will be significantly tightened and manufacturers will be obligated to verify the thickness of the hot-dip galvanisation.

Life is about to change for manufacturers of metal and steel structures. Beginning in 2014, a new CE labelling standard for steel products and their corrosion protection will shift product liability – i.e. the burden of proof for documenting coating thickness measurements – to the providers of the coating systems. For many in this field, only the most user-friendly and cost-effective measurement technologies will come under consideration.



Fig. 1: Compact pocket-sized instruments of the MP0/MP0R family

The FISCHER MP0/MP0R product family meets precisely these needs and requirements. Due to their compact design and simple four-button handling, these instruments are flexible in on-site applications and require no costly user training. The two displays allow for easy reading in various operational positions. Visual and acoustic signals inform the user when the measurement is complete.

The hard metal probe tips are a special feature that guarantees significantly longer lifetime, even on rough surfaces. Measurement results can be easily transferred to a computer for evaluation, recording and storage using the convenient FISCHER DataCenter software.



Fig. 2: Measurement of the duplex coating on electricity pylons using the DUALSCOPE® FMP100 and the FDX13H probe

Solutions are also available for more demanding requirements, for example the measurement of hot-dip galvanised coatings underneath a layer of paint. Specifically for this purpose, FISCHER has developed the FDX13H probe. Used in combination with the FMP instruments, it can determine the thickness of both the zinc and paint coatings in one “duplex measurement” step; the readings are displayed separately. FISCHER has thereby succeeded in greatly simplifying for the user an extremely complicated metrology procedure, simultaneously presenting the results of two different physical measurement principles in one easy operation.

Whether the compact and cost-effective MP0/MP0R gauges or the powerful FMP models with exchangeable probes, FISCHER has the right high-precision instrument for determining the thickness of hot-dip galvanised coatings. Your local FISCHER representative will be happy to answer any questions you may have.

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