



UV-Resistance of DENSOLEN Tape Systems

DENSOLEN-AS- and S-Tapes are three-ply corrosion protective tapes with a polyethylene carrier film and butyl rubber layers on both sides. Both Polyethylene and butyl rubber are protected against UV-degradation by means of suitable additives.

Nevertheless, also stabilised plastics will be damaged on a long term time scale by UV irradiation and by this suffer at least from a partial decrease in their initial properties. It can be estimated that stabilised polyethylene maintains its original

properties under UV ageing conditions for 3 to 5 years. The stability of a stabilised butyl rubber is known to exceed that of polyethylene.

Coatings from DENSOLEN-Tapes (AS and S) are long-term stable against UV-degradation by the multi-ply tape structure and by the multi-layer composition of the tape systems. The inner tape layers in DENSOLEN-Tape systems are protected by the outer tape layer and particularly by the outer tape ply from stabilised butyl rubber. Even if

this layer suffers from degradation and by this has lost its original mechanical properties, it still protects the inner tape layers and plies against UV irradiation.

It has to be noticed that the outer butyl rubber layer will get a rough surface structure and that its colour will fade after some years of exposure to weathering ("elephants skin"), which will nevertheless not affect the overall coating performance.

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