

ICO-THANE 95 replaces ICO-THANE 96

SUMMARY

ICO-THANE 95 has similar processing conditions and properties as ICO-THANE 96. An HMPE rope coated with ICO-THANE 95, will show a better abrasion resistance (Rom on Metal abrasion test) than with ICO-THANE 96. ICO-THANE 95 has no hazard classification. ICO-THANE 95 will be available as of February 2023

BACKGROUND

In 2011, I-Coats introduced two new polyurethanes: ICO-THANE 32 and ICO-THANE 96. These products replaced L9009 and L9010, which contained N-Methyl Pyrrolidone (NMP). The use of NMP was severely restricted by new REACH regulations. ICO-THANE 96 still contained a small amount of N-Ethyl Pyrrolidone (NEP), at that time accepted under REACH as an alternative. However, in December 2022 further restrictions were implemented for NEP. For that reason I-Coats developed **ICO-THANE 95** (totally NEP free)

ICO-THANE 96 was a rather hard, but more flexible, light-fast polyester-based aqueous aliphatic polyurethane dispersion compound. It is discontinued in accordance with changes in REACH.

ICO-THANE 95 is a rather hard, but more flexible, light-fast polyester-based aqueous aliphatic polyurethane dispersion. It is the successor of ICO-THANE 96, with a better abrasion resistance when applied on HMPE rope and totally NEP free.

TESTS

The abrasion performance was tested by applying the polyurethanes on small HMPE braids and then testing the coated braids on dedicated equipment. As can be seen in the graph abrasion results the performance of the new ICO-THANE 95 has significantly improved.

It should be noted that the abrasion tests done here are only comparative test, for specific conditions, dedicated tests should be done.

