



## Evaluating adhesion by dolly pull-off adhesion test

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*Good adhesion of a coating is a basic condition and preferably during the entire life of the coating. A dolly pull-off adhesion test can give a good indication in advance of the adhesion quality of wet-chemical coatings or whether an adhesion problem can be attributed to the coating itself or to the substrate.*

Roughness, pretreatment and type of coating have a significant influence on the adhesion of coatings on surfaces. Whether we are talking about a ship's bow or the cover of a mobile phone, we strive to keep a coating for as long as and as functional as possible. Sirris has extensive experience and techniques for testing the properties of coatings ([testlabs.sirris.be](https://testlabs.sirris.be)) and is now also adding the dolly pull-off adhesion test to its range of tests for coatings. Using a dolly pull-off adhesion test, it's possible to get an idea of the quality of wet-chemical coatings in advance. If the adhesion of coatings is no longer satisfactory, a dolly pull-off test can be used to check whether it is the coating itself that does not adhere sufficiently (cohesion) or whether the coating anchors itself insufficiently to the substrate (adhesion).

### Test method

All tests are done in accordance with the ASTM D4541 and BS EN ISO 4624 standards. For these test methods, we glue a standardised component (the 'dolly') to the coating and let the adhesive cure for 24 hours. There is a selection of dollies with different diameters. If necessary, we cut through the top coat around the dolly.



## Authors



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