

# Crack measurements

## Quantification using scanner

Mars 2012

**Cracking can occur when folding paper or during creasing of board in the converting process.**

**The folding makes the coating and colour layer to crack and the visual impression of the box or sack becomes less attractive.**

**Finding the right balance between binder content (cost) and crack resistance (performance) is a hard task without reliable methods to measure cracking tendencies.**

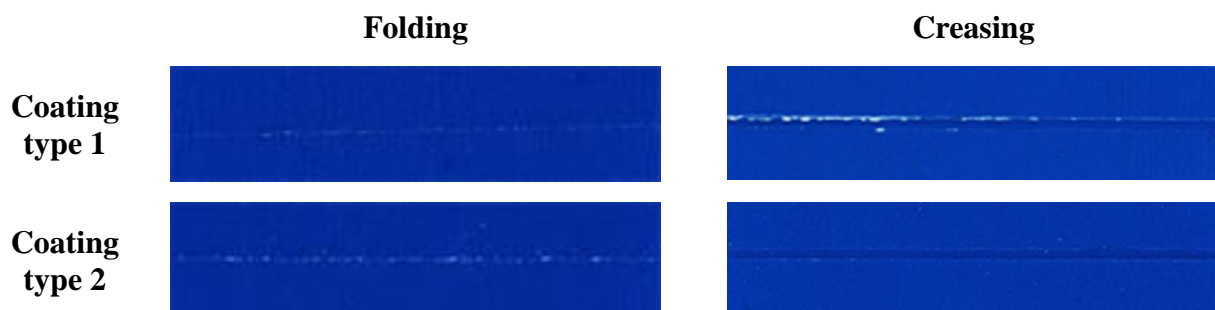


*Crack in the color layer on the edge of the box*

### Reasons to use this software

- This tool makes it possible to measure the crack tendency in an effective, reliable, fast and intuitive way, using an affordable standard flatbed scanner
- The method can be a reliable and valuable tool for quality control
- Insures that the optimal coating formulation is used for each application

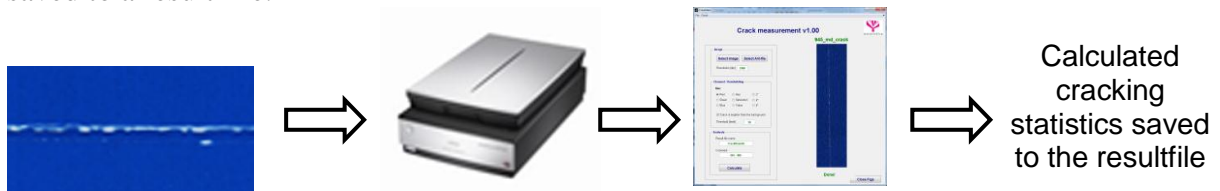
### Example



*Example of different crack tendency for two different coatings*

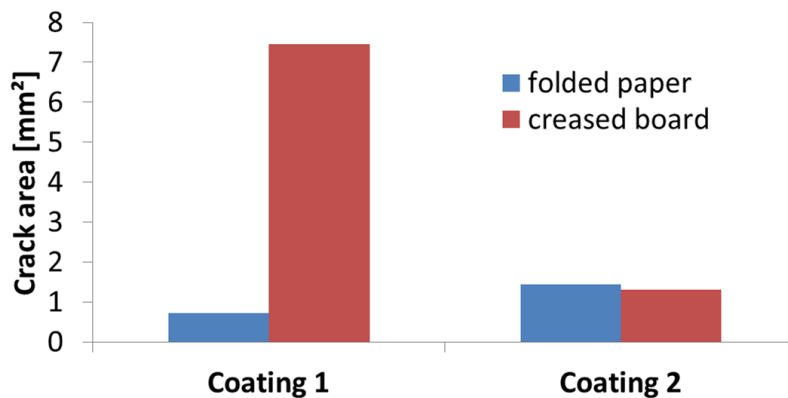
## How this is done and what you get

The sample is first scanned, the crack software calculate the crack statistics and the results is saved to a result file.



*The calculated numbers are saved as ASCII-files for import to Excel or other software*

## Calculated results from the samples on the first page



*The average crack area is one of the calculated parameters*

## Opportunities

- We can make the measurements on commission basis
- You can buy the software from us and make the measurement in your own lab  
The needed equipment is: A flatbed scanner and the crack measurement software
- We can advise you to find an optimal coating colour composition when balancing cracking resistance vs. material costs

## Contact

For more information about the method, prices etc. contact:



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