

## PAROtester versus SCHMIDT Hammer In the Web Processing Industries

Some manufacturers/converters of paper, film and foil use the SCHMIDT Hammer for roll testing, however, we would like to draw your attention to the following facts:

- The SCHMIDT Hammer is a mechanically working instrument which requires periodical servicing and calibration.
- It has been specifically designed for the construction/building industry to measure the compressive strength of concrete and it will be maintained to satisfy the demands of this industry.
- When the hammer is used for concrete testing, it needs checking after 1000 to 2000 impacts, which corresponds to a service interval of several months.
- With roll testing, on the other hand, this number of tests can be reached daily, in which case the SCHMIDT principle is not robust enough for this application.
- The frequent complaints we received about failures and the increased need of spare parts induced us to develop an instrument specifically suited for paper, film and foil - the PAROtester .

Compared with the "classical" SCHMIDT Test Hammer the PAROtester has the following advantages:

- The measurement is more objective, i.e. different operators obtain identical results.
- Higher resolution which allows for comparatively small differences in hardness to be clearly noticeable.
- Better reproducibility, i.e. several measuring series performed on the same roll yield identical results.
- Less maintenance, easier service, i.e. in the long run less expensive.
- Can easily be calibrated, i.e. the variation between the individual instruments is smaller which means that measurements with different instruments on one and the same roll yield identical results. The measured values are therefore interchangeable (e.g. between supplier and customer).

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In addition the PAROtester is extremely user-friendly and enables the user to make immediately a reliable evaluation of the hardness and evenness of the rolls without room for personal interpretation.

We fully understand that customers who have used the SCHMIDT system for decades wish to do so also in the future.

After all their experience is based on the "R"-value as derived from the SCHMIDT Hammer. For this reason the PAROtester is now available with a "R"-value conversion feature.

For more details, please see our enclosed PAROtester leaflet.