



GRAPHIPLAST® News

-> GRAPHIPLAST® adhesion on rough surfaces

Automatic packaging lines are commonplace today. Data carriers with barcode are controlling the type of packaging used - depending on customer requirements. In this particular case, barcode labels had to be attached to the pallet in a fully automated process. The challenge was in achieving secure bonding to wood, while at the same time allowing automatic label application. Automated processes require a stable foil. To achieve a good bond to a rough surface like wood, a high degree of flexibility and strong adhesion are required. Tests showed that these competing objectives can be achieved. The solution: GRAPHIPLAST® 7277 with PK-80-601 adhesive, which met all the requirements at first attempt. This was an important step for the user, because automation creates cost benefits and secure processes.

The Application: *Reliable barcode identification of pallets*
Your Benefit: *Automated application and identification*
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-> Strong solution for the chemical industry

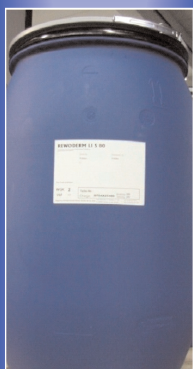
The identification of drums in the chemical industry is a very demanding application. A label for laser printers needs to have high bonding strength and adapt well to uneven surfaces. When filling drums at higher temperatures, the label has to retain its shape and not peel off at temperatures up to 180 °F. For outdoor storage, it needs to be weather resistant for a minimum of six months. As well, it must also be possible to remove the data carrier without residue at the customer's site or when refilling. A difficult, but not impossible task for GRAPHIPLAST® 7177 with its new PK-40-306 adhesive! An all-round talent for demanding adhesive solutions.

The Applications: *Adhesive label with strong bond for difficult surfaces*
Your benefit: *Secure identification - without residue.*
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-> Color codes for material flow control

Whether it is for status monitoring of containers or passing through gauge and testing stations - for the material flow the availability of status information is essential. A forklift truck driver must be able to see from his vehicle where a material is to be taken. Labels and documents made from GRAPHIPLAST® can be printed in advance. The color coding can then be removed after the various processes, because of its perforations. In this way, color coding makes it possible to recognize the origin of materials and to safely control allocation to a delivery. For more complex processes, for instance in multi-stage manufacturing with status monitoring, the S+P Multicolor® code, a software based status monitoring system, offers secure options for material flow control.

The Applications: *High-level material flow control*
Your benefit: *Reliable process control through clear identification*
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GRAPHIPLAST® News

-> Attaching GRAPHIPLAST® labels to wood

Attaching barcode labels to wooden packaging, wood bundles or wooden pallets is a demanding application. A comparatively simple and cost-effective method of attaching plastic labels is stapling. Modern staplers can be equipped with plastic staples which guarantee perfect attachment of the data carrier and avoid splintering or snap-through of the label material. With this method, weather resistant GRAPHIPLAST® materials can be attached easily and saw blades are protected from metal staples.

The Applications: *Attaching labels to wood*

Your Benefit: *Low-cost, effective fastening*

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-> Automotive supplier profits from GRAPHIPLAST® Solution

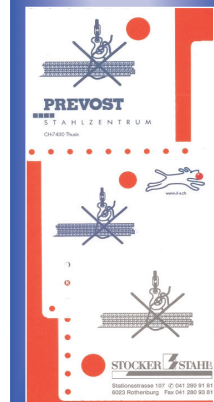
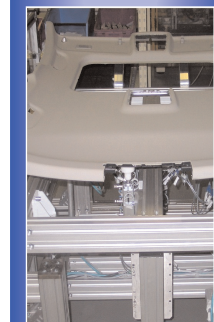
There is a limit to the adhesive strength of conventional labels. An example: running labels through a printing system to print product data requires that the adhesive does not come off in the printer, as this can cause the printer to stop very quickly. To achieve a satisfactory bond, users usually resort to additional tools such as spray or tube adhesives. When labels are applied to the interior panels of doors and roofs, this can lead to differences in colour during the aging process - a potential source of complaints. Seidl + Partner thick layer adhesives solve this problem. Tests have shown that labels with S+P PK-40-301 adhesive and GRAPHIPLAST® 7078 meet all the criteria. The stable foil is easy to apply, even with gloves. A high quality label with a strong bond - without leading to colour changes.

The Applications: *Thick layer adhesive for a sophisticated adhesive solution*
Your benefit: *Avoiding customer complaints*
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-> Label with health and safety warning for crane operations contributes to safe working conditions

Using a crane for moving coils always carries a risk of fastening the load incorrectly. Health and safety notices warning operators not to attach the load to tying wires or straps, are often displayed too far away, and are not available when needed. Unfortunately this can lead to accidents on a regular basis, as has happened recently. For Seidl + Partner reason enough, to advise you, in the interests of health and safety, that it is possible to print a pictogram with a safety notice for crane loads on coil tags. You can find an example in the picture on the right. There is usually room on most data carriers, either on the front, or on the reverse side. A simple thing, promoting health and safety.

The Applications: *Handling heavy loads = accident risk*
Your benefit: *Safety notices help prevent accidents*
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**S+P Application technology
GRAPHIPLAST® & Hardware****-> Better bond for self-adhesive labels with roller**

Attaching an adhesive label is an important process, the main factor for bonding strength. Even application and contact pressure determine the adhesive strength that is actually achieved. To achieve a permanent bond, the use of a simple roller, similar to the ones used for wallpapering, is recommended. This simple device also prevents the contamination of labels, for instance by dirty gloves. You can find this solution in any DIY store, or you can request a test roller from Seidl + Partner, because sticking to difficult products requires great care.

The Applications: *Optimum adhesion for self-adhesive labels*

Your benefit: *Good adhesion on difficult surfaces!*

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-> Legible barcodes despite damaged thermal transfer printing head

Manufacturers of thermal transfer printers usually give a guarantee on the life of the printing head, based on a printing output of 50 km. This guarantee applies to the use of self-adhesive paper labels. Robust plastic labels require the use of high-quality ribbons, resulting in higher printing temperature and more wear and tear, due to the harder surface material. These are all factors reducing the life of a print head. Missing single dots can reduce the legibility of barcodes, if the barcode is printed horizontally or "picket fence" position. The alternative: a vertical layout of the barcode, "ladder" position, and a suitable bar width which increases legibility. We will be happy to advise you on this subject.

The Applications: *Industrial bar code identification*

Your benefit: *Better reading of barcodes = fewer manual entries*

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-> Despatch optimisation with radio data transmission

An increase in transport costs as a result of higher energy prices is already being talked about. The higher the shipping costs, the more important it is to avoid incorrect loading, as wrong deliveries upset customers, cause considerable additional effort and, the costs of repeating a delivery. In most companies, two opposing interests compete: flexibility in vehicle planning and reliable stock updates - what was loaded where. To ensure both, loading data has to be updated constantly - and be made available in real-time and reported back when the data is being processed. Radio data transmission, as used by parcel services, offers the option to transmit shipping data to terminals in real-time and to report the information of the actual loading back to the terminals. We will be happy to advise you on this subject.

The Applications: *Mobile data recording for loading control*

Your benefit: *Quick and reliable loading control in the shipping*

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**S+P News****-> Customer satisfaction analysis 2004 your testimonial for S+P**

The benchmark for S+P service and the resulting satisfaction are set by yourselves. To update the status, we carried out a customer satisfaction analysis earlier this year. Every customer received a questionnaire with the request to assess S+P. We were very pleased with the high number of replies (approx. 150 reply faxes), as this increases the explanatory power of the analysis. We asked for your views on 14 areas in total - from quality to innovation and distribution. The average score from all the different areas was 8.4 (out of a possible score of 10). Thank you for your assessment - for us an incentive to try even harder. As promised, there was a prize draw among the people who replied, and three Apple MP3 Players were sent to the lucky winners in September.

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IdeasToImprove* Product Line expands*Rebar Plant Optimization Software**

The perpetum mobile is not yet invented, but now there is cut optimization software which pays for itself over and over again. The amortization shouldn't me more than several months in most rebar plants with today's steel prices going through the roof. The L+P LabelMaster's low \$5,000-\$9,000 investment not only optimizes cutting of steel; the basis of the program is a module where master data, schedules and steel lists can be managed. Printing of the tags with the graphical output of the shape and PDF barcode is a simple procedure and reduces errors.

Your benefit: Save raw material cost, reduce errors.

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HQ Thermal Transfer Ribbons save cost

The Mill of the 21st century faces high costs due to errors. The cost of the Thermal Transfer Ribbons is insignificant compared to the value of having a high quality printout on the data carrier tag or label. So why gamble? Let us make you a proposal of the adequate ribbon for your requirements and compare for yourself.

Your benefit: Save cost by decreasing errors.

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Wire Clips

"Save costs whenever you can' is the motto of today's industrial manufacturers. Steel Mills are increasingly concerned about the high cost of wire which they are using to attach tags. Let us offer you our low cost clips solutions. They save you money and increase data security.

Your benefit: Save cost on wire and don't lose tags.

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