

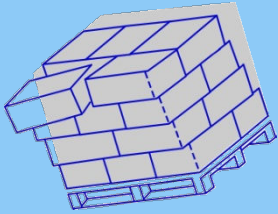
Palletizing Safety Systems

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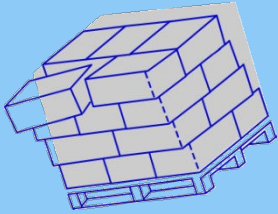
About Us

Grip Fix America Inc.

www.GripFix.com

- We are wholly owned subsidiary of H. Rand GmbH
- Founded in 1980 by Helmut Rand, still run by the family
- Production in Neuhausen, Germany, 100 km south of Frankfurt





About Us

Grip Fix America Inc.

www.GripFix.com

- We sell in 52 countries, through a subsidiary in Singapore and several exclusive partners
- North and South America, EU, Middle East, and Asia-Pacific
- 80% export, 20% domestic (means Germany)

Our markets include:

- Construction industry (mortar, cement, gypsum, talcum, ...)
- Chemical and petrochemical Industry (plastic granulate, salts, ...)
- Foodstuff Industry (flour, baking mixtures, animal feed, ...)
- Many others (lawn and garden products, seed, pigments, other industrial products)

Solving Problems in Distribution and Materials Handling

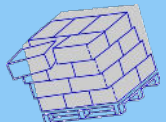
- Safety of Pallet Loads



- Costs of Rejections



- Costs of Packaging Material

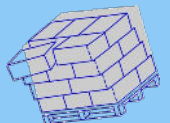


Concept of Stabilizing Pallets

2 Part System

GRIP FIX® waterbased and solvent free Antislip Agents

BAG FIX® application systems for applying GRIP FIX

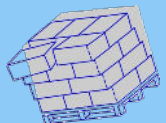


The heart of our palletizing safety system:

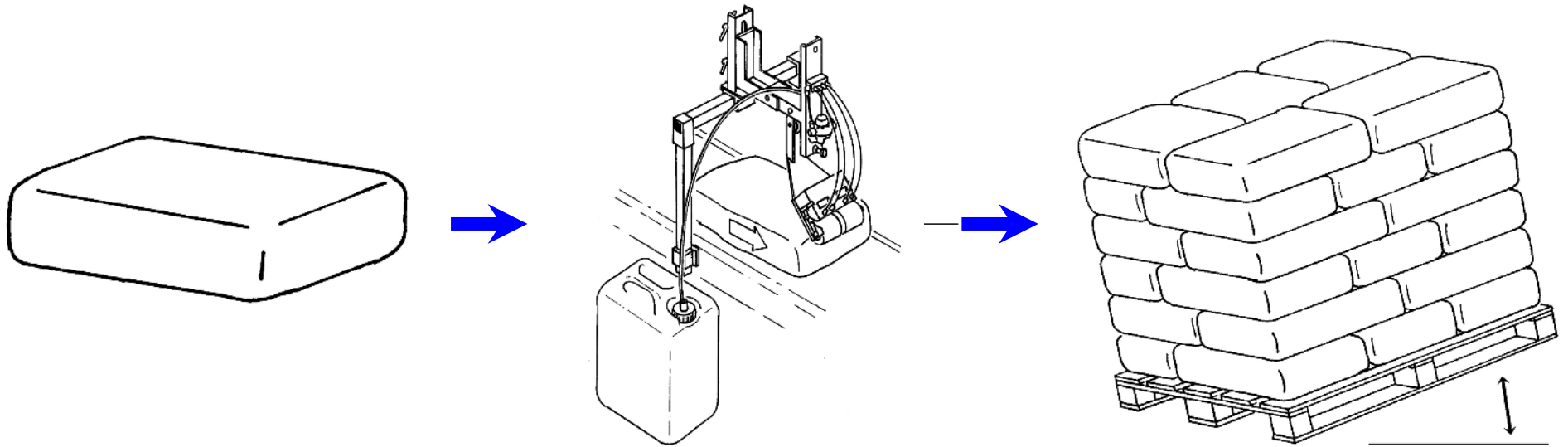
How does GRIP FIX™ work?



GRIP FIX™ is applied in small quantities to the pallet loads before they are palletized. After a short drying time, the pallet is stable and remains so until the pallet is unloaded again.



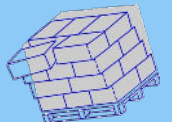
Stabilizing Pallets



Consumption per package:

PE-Bags	0.5 - 1.0 g
Paper-Bags	1.5 - 2.5 g
Cartons	1.5 - 4.0 g

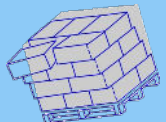
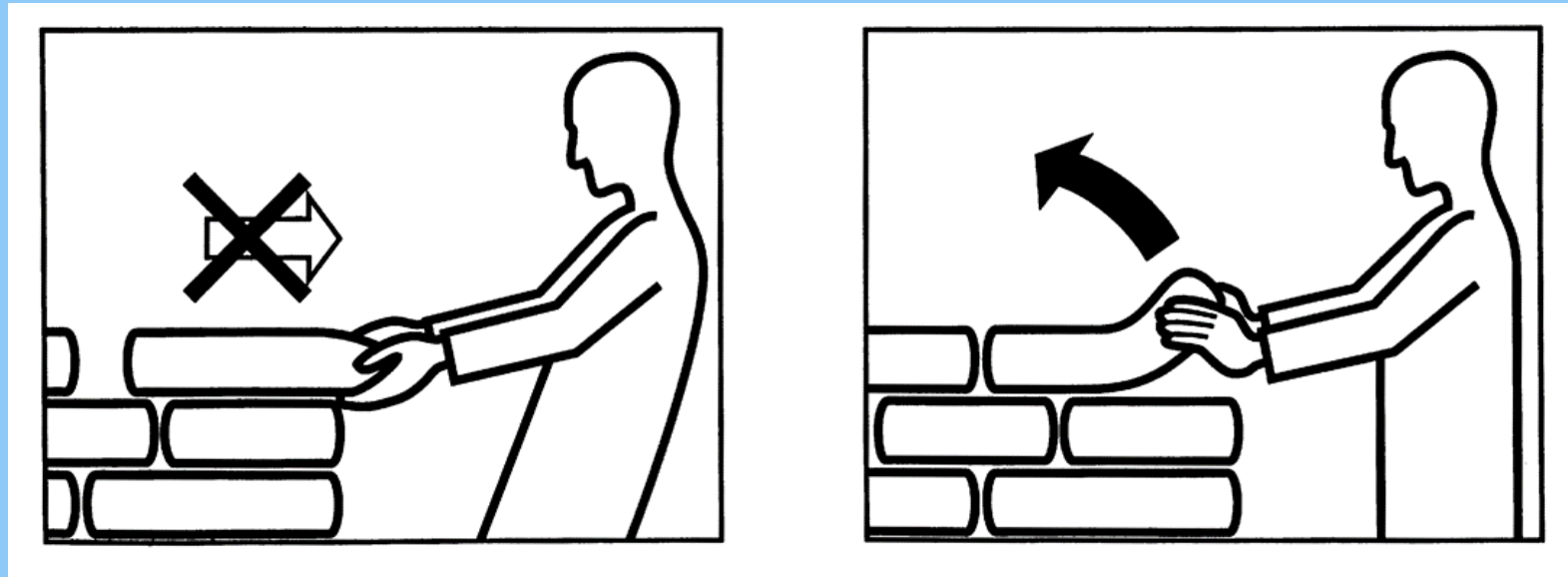
- High Shear Strength
- Low Tensile Strength



The heart of our palletizing safety system:

How does GRIP FIX™ work?

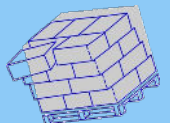
The Trick: High shearing forces but very low tensile strength; the pallet loads do not slip but can be separated again easily and, in general, the adhesive leaves no residue when depalletizing.





GRIP FIX Antislip Products

- Waterbased & solvent-free
- More than 120 different GRIP FIX formulations
- FDA approved for food packaging
- 100% biodegradable
- Zero carbon footprint
- Wide range of packaging available, from 1 kg up to 1000 kg



BAG FIX Application Systems

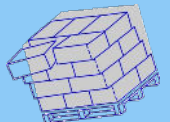


12 different BAG FIX application systems are available:

- Manual
- Fully-Automatic Spray or Roller
- Contacting or Contact-less Application
- Customized Systems

So far 2500 Bag Fix Systems have been installed in 50 countries

BAG FIX™ Application Heads



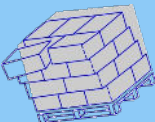
BAG FIX Application Systems



Advantages

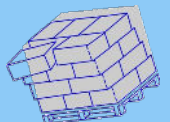
Small Footprint allows for easy incorporation into design of a new line or an easy retrofit to most existing systems

- Robust design
- Economical alternative to hooders and wrappers
- Quick-release closure produces a closed system
- 6 week no obligation trial
- Allows handling without film, prevent condensation inside the stretch film



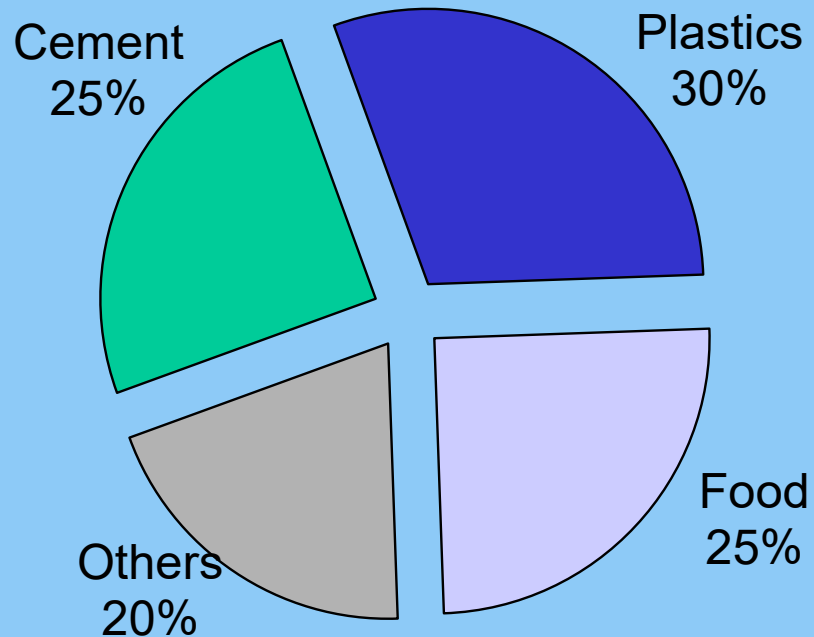
Advantages for the Flour Industry

- **Increased Safety of the Distribution System**
- **Reduce Labor, Shipping, and Packaging Costs**
- **Potential increase in Shelf Life**
- **Avoid Disposal of Waste Materials**
- **Retail/Display ready pallets**
- **Contributes to a Cleaner Environment**



Reference

Industry of our Customer:



Customers Include:

(alphabetical order)

Ardent

BASF

Exxon Mobil

King Milling

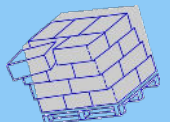
Nestle Purina

Miller Milling

P & H

Rogers Foods

Unilever



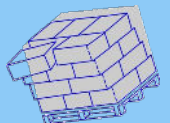
Kiesel: Cement



- Stabilizing with GRIP FIX
- Storage up to 5 pallets on top of each other
- Savings on cost and garbage of about 10 t Stretchfilm / year

Facts:

- 40,000 t / year
- Export to 5 countries
- 42 paper bags / pallet (1,050 kg)



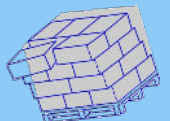
Unilever: Handsoap



- Stabilizing with GRIP FIX and a string for the last layer
- Savings on cost and garbage of about 14 t stretch film / year

Facts:

- 32,000 t of soap / year
- Export to 86 countries
- 117 cartons per pallet (660 kg)





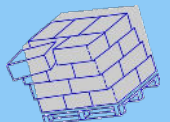
Sano: Animal Feed

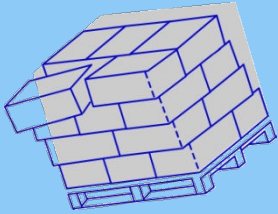


- Stabilizing with GRIP FIX
- Savings on cost and garbage of about 45 t stretchfilm / year

Facts:

- 180,000 t of pet food / year
- Export to 12 countries
- 40 paper bags / pallet (1,000 kg)





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Questions and Comments?