

Economic Stabilization of Pallets for Safe Storage and Transport

Grip Fix America Inc.

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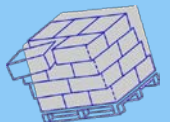


About Us

Grip Fix America Inc.

www.GripFix.com

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



About Us

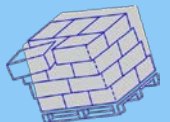
Grip Fix America Inc.

www.GripFix.com

- We sell in 52 countries through exclusive partners
- North and South America, EU, Middle East, and Asia-Pacific
- 20% domestic (Germany) 80% global

Our markets include:

- Milling and Foodstuffs (flour, baking mixtures, animal feed, ...)
- Biofuels/Wood Pellets
- Construction (mortar, cement, gypsum, talcum, ...)
- Chemical and petrochemical Industry (plastic granulate, salts, ...)
- Many others (lawn and garden products, seed, pigments, other industrial products)



Solving Problems in Distribution and Materials Handling

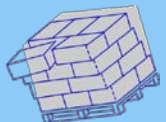
Safety of Pallet Loads



Cost of Rejections



Cost of Packaging Material

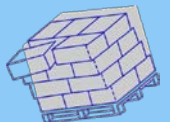


Concept of Stabilizing Pallets

2 Part System

GRIP FIX® waterbased and solvent free Antislip Agents

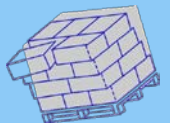
BAG FIX® application systems for applying GRIP FIX



GRIP FIX : The Heart of the System



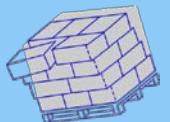
- Waterbased & solvent-free
- More than 120 different GRIP FIX formulations
- Suitable for many substrates, including PE, paper, or cartons
- FDA compliant for food packaging
- 100% biodegradable
- Zero carbon footprint



How does GRIP FIX™ work?



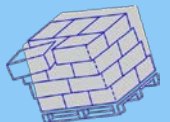
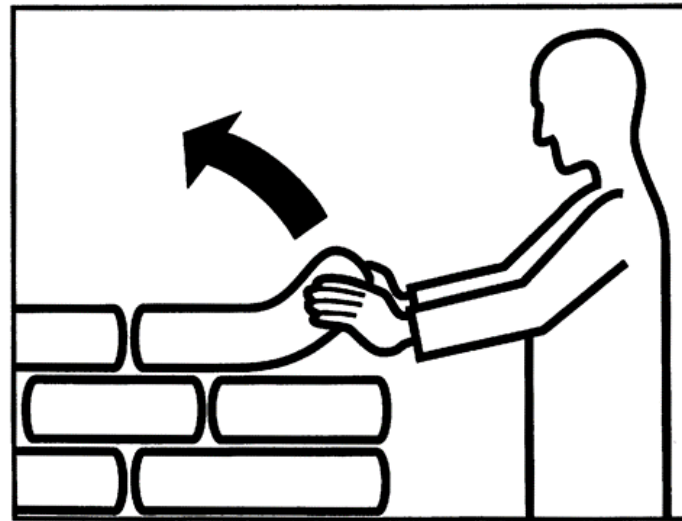
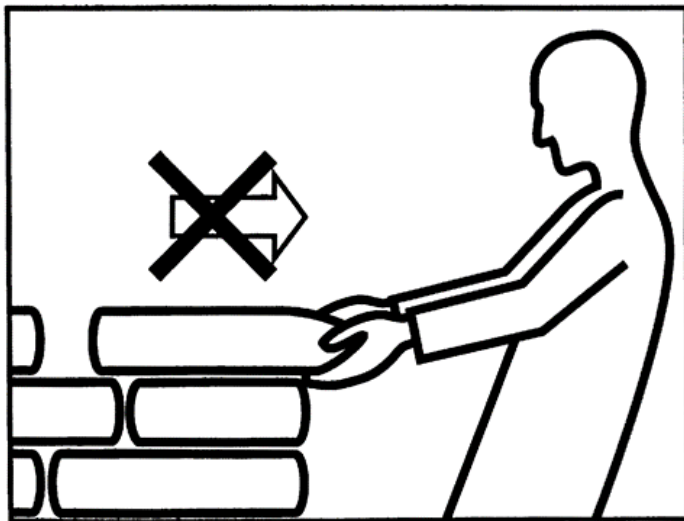
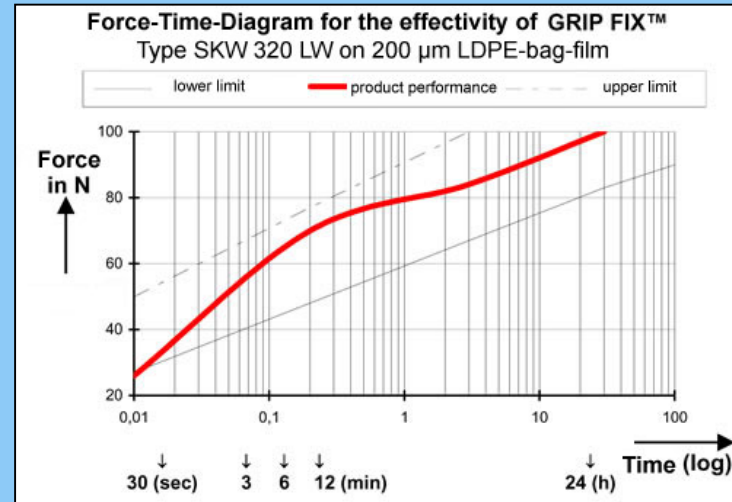
- GRIP FIX™ is applied in small quantities to single packages before palletizing.
- After a short drying time, the pallet is stable and remains so until the pallet is unloaded.



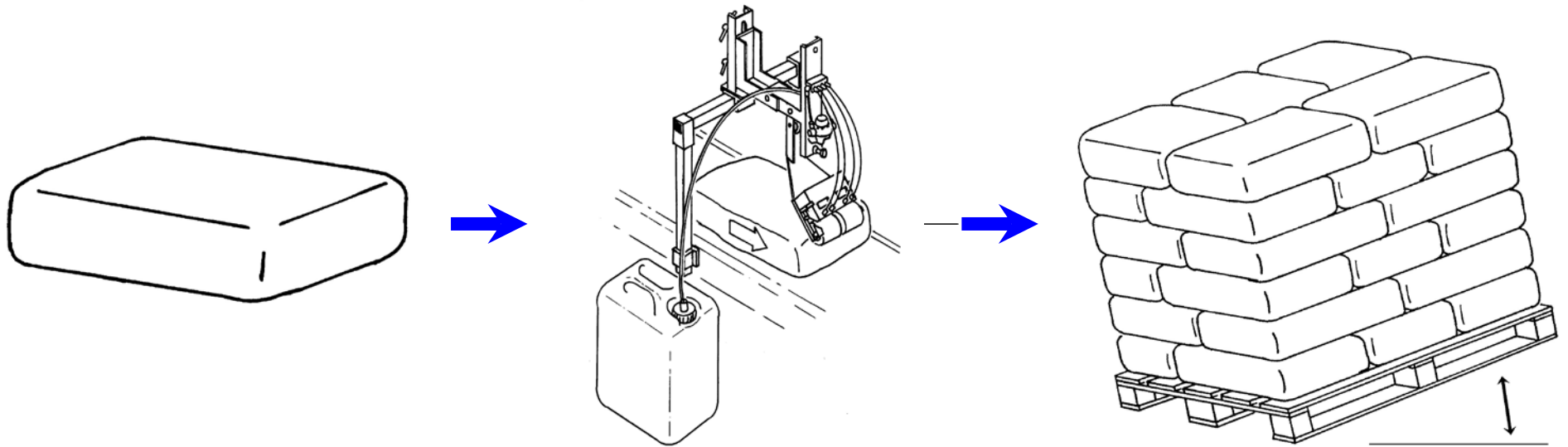
How does GRIP FIX™ work?

The Trick:

- High shear strength and low tensile strength
- The pallet loads do not slip but can be easily separated

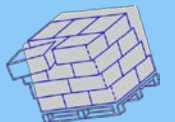


Stabilizing Pallets



Consumption per package:

PE-Bags	0.5 - 1.0 g
Paper-Bags	1.5 - 2.0 g
Cartons	1.5 - 4.0 g



BAG FIX Application Systems

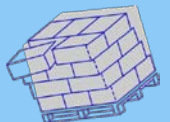


BAG FIX™ Application Heads

12 different BAG FIX application systems are available:

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

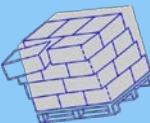
So far 2500 Bag Fix Systems have been installed in 50 countries



BAG FIX Application Systems



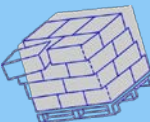
- Small Footprint allows for easy installation
- Robust design
- Economical alternative to stretch hooders and shrink wrappers
- Quick-release closure produces a closed system
- Wide range of packaging, from 1 kg up to 1000 kg



BAG FIX Application Systems

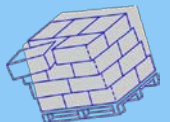


- ESP 4 enclosed for aggressive environments
- S20 heated for cold environments
- ESP 2-Combi for paper and woven bags



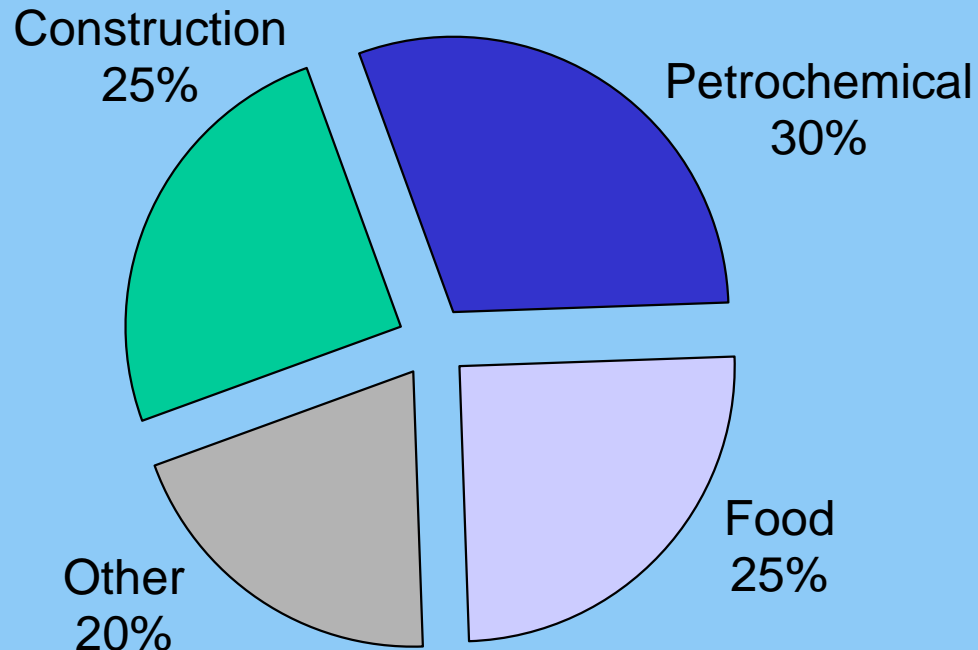
Advantages for the Milling Industry

- **Increased Safety of the Distribution System**
- **Reduce Packaging, Labour Costs, and Rejections**
- **Potential Increase in Shelf Life**
- **Contributes to a cleaner Environment**



Reference

Industry of our Customer:



Customers Include:

(alphabetical order)

BASF

Bayer

Borealis

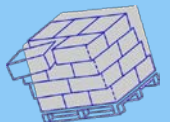
DOW

Evonik

ExxonMobil

Knauf

Unilever



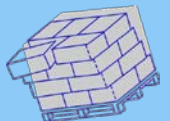
Unilever: Handsoap



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

Facts:

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



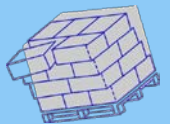
Sano: Animal Feed



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

Facts:

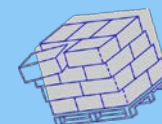
- 180,000 t of pet food / year
- Export to 12 countries
- 40 paper bags / pallet (1,000 kg)

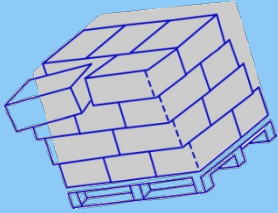


Molino-di-Assisi



- One of nearly 200 BagFix units installed in milling in Italy
- Flour mill, part of the Grigi Agricultural group
- Stabilizing with Grip Fix
- Eliminating stretch film reduced condensation, resulting in 50% increase in shelf life





Palletizing Safety Systems

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Questions?