



SOLUTIONS FOR BULK MATERIALS HANDLING



IMPROVE PRODUCTIVITY AND SAVE COSTS WITH MATROX THERMOPLASTICS LINING SOLUTIONS

Bulk materials handling applications, brings with it unique challenges. Changes in moisture and particle size can affect a product's ability to flow. Traditional steel surfaces become rough and corroded, causing materials to stick to the surface, causing ratholing; mechanical arches; possible spontaneous combustion and product degradation.

MATROX® is a premium grade of UHMWPE specifically developed by Röchling Engineering Plastics for flow promotion in bulk handling for new construction and retrofit applications. MATROX® is based on a specific formulation of Ultra High Molecular Weight Polyethylene (UHMW-PE / PE1000) that combines the best surface friction qualities with abrasion resistance thereby promoting bulk material flow. MATROX® assists in the reduction of typical flow problems in bins, hoppers, silos, dragline buckets, transfer chutes, truck beds, rail dump hoppers, ship holds and other applications.

- MATROX® exhibits abrasion resistance rated better than Carbon Steel for sliding abrasion applications and is virtually unbreakable.
- Perfect for the challenging climatic conditions in Africa, MATROX® is weather-proof and will not be damaged by UV exposure or moisture.
- The significantly lower weight of MATROX® (Specific Gravity of 0.93 g/cm³) offers a further benefit in terms of reducing the overall weight of the structure, thereby making installation easier.
- The substantially longer life span of MATROX® over conventional construction steel offers further capital benefits. In a sand-slurry wear test the polymer achieved a value of 80, which is an improvement of approximately 46 % over steel at 150 (S235JR).

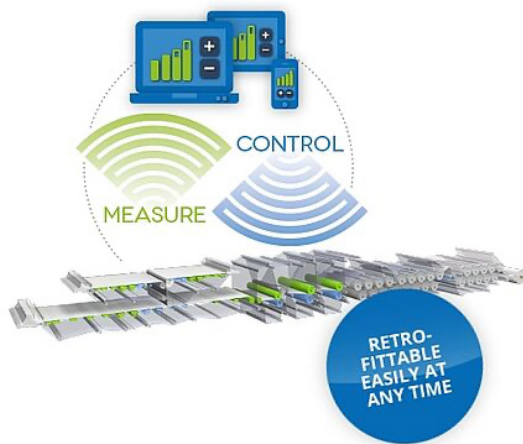
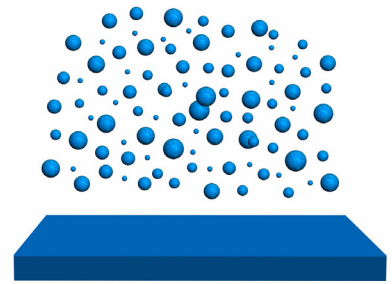


To cater for unique applications demands, modified versions of MATROX® polymer is available on request.

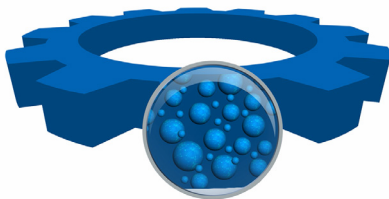
Röchling

SMART PLASTICS

DIGITIZED PLASTICS FOR INTELLIGENT PARTS



INTEGRATED SENSOR
TECHNOLOGY DESIGNED
TO MONITOR THE CONDITION OF
YOUR COMPONENTS.



Introducing “Smart Plastics”, shaping the way for the future in data tracking. No matter what industry you work in, Röchling is the right partner for intelligent plastic parts. The technology Röchling calls SmartMarker, equips Röchling plastic products with an unmistakable identifier. Customers can easily authenticate and identify their components – offering completely new options, e.g. in counterfeit protection, the development of digital material passports and recycling campaigns.

SmartMarker gives customers three different applications:

AUTHENTICATION

The marker can be used to prove which company manufactured a component. To this end, a mobile BRANDPROOF® pocket detector is used to scan any part of the component. If the component contains the marker adapted to the individual customer this proves the origin of the product.

PARTICLE FINGERPRINT IDENTIFICATION

During identification, this marker can be used to determine whether a specific component is involved. For this purpose, a reference surface on the component is determined. This reference surface contains a random, and thus individual, irreproducible particle pattern. The pattern gives the component an unmistakable particle fingerprint.

TRACER-BASED SORTING

Tracer-based sorting (TBS) is a sorting technology developed that detects markers in plastics. This opens up entirely new options in the development of recycling cycles involving clients. Tracer-based sorting can be used to sort plastic waste for recycling efficiently and reliably. This creates transparency and dedicated take-back cycles can be established with customers.

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