



# SPIRAL SCREW CONVEYORS WITH WEAR PROTECTION OR WITH NON-STICKY LAYER

The mostly harsh conditions to which PURATEK spiral conveyors are exposed, requires a special wear protection of sliding insert in the conveying trough and often also wear protection of conveying spiral. Special wear protection has significantly higher resistance as the synthetic material usually used for sliding inserts, such as PE1000 or similar.

**Chemically aggressive, sticky, or extremely abrasive materials to be transported, must be considered especially.**

In close cooperation with a well-known manufacturer of engineering plastics, the polyurethane-based PURATEK-care® synthetic material was developed. PURATEK-care® consists of two components: Diisocyanate (hard component) and polyol (soft component). During the reaction of the two components, a number of specific additives are added. This gives rise to the outstanding properties of PURATEK-care® wear protection:

- High resistance to abrasion
- Non-sticky properties
- Easy to clean
- Sound insulation
- Low specific weight
- High mechanical strength
- High chemical resistance
- Good sliding properties

In the comparative test of PURATEK-care® sliding insert, a service life up to eight times longer was achieved, compared to conventional PE-HD-PE sliding insert material. The excellent chemical resistance to the vast majority of substances was proven in the laboratory of our development partner.

PURATEK-care® does not only provides lasting operational reliability for your spiral conveyor, but it is also very economical. PURATEK-care® is an investment in wear protection with a rapid payback effect. PURATEK-care® can also be retrofitted without any problems to existing conveyors.

