



Case Study:

Teknos Group Boosts Cleaning Efficiency with PRE-PRG™ S200



Background

Teknos Group is a leading global supplier of coatings and surface treatment solutions, serving industries from construction to manufacturing. With a strong focus on operational efficiency and sustainability, Teknos continuously seeks ways to optimize its production processes – especially in areas that affect both quality and downtime, such as color

changeovers in powder coating lines. Powder coating equipment, particularly extruders and nozzles, is notoriously difficult to clean due to the buildup of pigment-rich materials. Ensuring rapid and residue-free cleaning between production runs is essential for maintaining throughput, minimizing waste, and meeting strict quality standards.

Need

As Teknos scaled production and expanded color ranges, it faced growing pressure to:

- **Reduce machine downtime** between color changes
- **Improve cleaning efficiency** without compromising equipment
- **Avoid abrasive methods** that could wear down machinery
- **Meet sustainability goals** by using safer, environmentally friendly materials

The ideal purging solution had to be:

- **Non-abrasive** and compatible with sensitive extruder parts
- **Efficient in removing tough residues** like carbon black and pigment compounds
- **Low in environmental impact**, preferably based on bio- or recycled content
- **Cost-effective** in both usage volume and total cleaning time

Solution

To meet these demanding requirements, Teknos turned to **Premix's PRE-PRG™ S200**, a new generation of **sustainable purging compound** developed specifically for powder coating and polymer processing applications.

PRE-PRG™ S200 is a **natural fiber-based, mechanically purging compound** made primarily from recycled polymer and renewable raw materials. It offers a **non-abrasive, chemical-free** alternative to traditional purging methods, and is designed to clean machinery efficiently without harming metal surfaces.

Key technical features of PRE-PRG™ S200:

- **Specific gravity:** 1.2 g/cm³
- **Melt flow index:** 0.7 g/10 min (ISO 1133)
- **Processing temperature range:** 100–200 °C
- **Color:** White (easy to track during purging)
- **Compliant:** REACH and RoHS certified

Results / Benefits

After adopting PRE-PRG™ S200, Teknos reported **remarkable improvements** in cleaning speed and overall efficiency:

- **50–80% reduction in cleaning time** compared to traditional purging compounds
- **Less or no need for manual cleaning** between color changes
- **Non-abrasive** action preserved critical machine components
- **Reduced environmental impact** through use of recycled and bio-based materials
- **Lower total purging cost** due to reduced material consumption and downtime

The outcome? As one production supervisor from Teknos put it:

***"PRE-PRG™ S200
– the best-ever
purging compound
we have used."***

Vesa Viljamaa, Production
Manager, Powder Coatings

Get in touch with us

Whether you have questions about our wide range of plastic compounds and materials or need assistance, our team is here to help.

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