CHT

SMART CHEMISTRY
WITH CHARACTER.

TUBICOAT PET-H

Single-variety recycling

ECOLOGY AND SUSTAINABILITY

Sustainability has also become an issue in the field of technical textiles.

The usually demanding requirements are not being scaled down, but sustainable substitute solutions are expected with the same specifications.

Circular economy plays a major role here. The aim is to continue using the materials even in other applications after their life cycle has expired.

A good example here is the automotive industry, which is increasingly under pressure to find pure and recyclable finishes and coatings for the textiles and nonwovens used.

Finishes or coatings with TUBICOAT PET-H on polyester fibers can be declared as single grade.

The end article is always taken into consideration.

The finished or coated article can thus be fed into the recycling loop and valuable resources can be saved.

APPLICATION FIELDS

TUBICOAT PET-H offers a wide range of application possibilities, as it can be applied by paste coating, foam finishing or padding.

- TUBICOAT PET-H is used for formaldehyde-free stiffening of mostly technical articles e.g., filters, carpet....
- By combining it with e.g., TUBICOAT PET-ADD, which is also based on PES, handle variations of the finished goods can be achieved.
- For carpet back coating, it serves not only as a stiffener but also for pile bonding.
- Use in the food industry for indirect food contact is also possible.
- The possible combinations with other auxiliaries such as selected flame retardants or fluorocarbons extend the range of applications

PROPERTIES

Coatings and finishes with **TUBICOAT PET-H** are characterized by the following properties:

- Stiffening
- On PES textiles and nonwovens, the burning behavior is not negatively affected.
- Can be recycled purely by type
- Variable application possibilities via paste coating, foam finish or padding
- Good compatibility with other textile auxiliaries e.g., dispersions, flame retardants...
- Suitable for indirect food contact
- Low emission according to TA-Luft
- Formaldehyde-free*

*Formaldehyde-free in this case means that the ingredients neither contain nor release formaldehyde during processing.

RECIPE RECOMMENDATION

The necessary application amount depends on the product and the desired effect of the finish. The following application amounts are guide values.

Padding

g/l	Product
100-400	TUBICOAT PET-H
0-100	TUBICOAT PET-ADD

Foamapplication

g/l	Product
100-400	TUBICOAT PET-H
0-100	TUBICOAT PET-ADD
10-20	TUBICOAT FOAMER ELS
100-300	Foam weight

Pastecoating

g/kg	Product
100-800	TUBICOAT PET-H
x	TUBICOAT THICKENER 17

Drying and fixation are done at temperatures of 100°C -170°C. The duration depends on the basic material and the application amount.

CHT
SMART CHEMISTRY
WITH CHARACTER.
www.cht.com