



To the left: Mr. Nadir Biler, Installation Technician for Baldwin Technology at Spot Uluslararası Tekstil Sanayi ve Mümessillik A.Ş. To the right: Mr. Ali Küçükörenköy, Finishing Manager, Sezginler Tekstil.

# Sezginler Tekstil realized Zero finishing chemical discharge with TexCoat G4 from Baldwin

SEZGINLER TEKSTİL, TURKEY

CASE STORY

The Turkish knitted fabric printing and dyeing company Sezginler Tekstil installed four TexCoat G4 systems to the softening finishing processes and gained increased uptime, exceptionally even finishing quality, and considerably reduced chemistry and energy consumption.

## Non-contact spray - a dealmaker

The finishing application system, TexCoat G4, was introduced to Sezginler Tekstil by the Turkish textile machine vendor, \*Spot Tekstil, a highly regarded partner of Baldwin. Excited by the many benefits of applying finishing chemistry with non-contact spray technology, Sezginler Tekstil purchased a TexCoat G4 system for the stenter line in the softener finishing process.

## Benefits eliminating pad/foulard issues

At the time, the company utilized the conventional pad/foulard method, and experienced quality issues and time-consuming dilution occurrences, especially in the wet-on-wet softener process. By integrating the TexCoat G4 into this production step, finishing could now be done wet-on-wet via pad/foulard followed by the non-contact spray system from Baldwin, which then eliminated the issues mentioned.

## Zero chemical discharge

Sezginler Tekstil's TexCoat G4 delivered successful results, and soon after commissioning, three additional TexCoat G4s were ordered. Sezginler Tekstil now uses the four non-contact spray systems in both wet-on-wet and wet-on-dry processes and experiences high uptime, consistent quality and practically zero chemical discharge.

## A decision to never regret

"By using the TexCoat G4 in the wet-on-wet process with reactive dyed fabric, we get a uniformity of the fabric that we have never experienced before," said Mr. Ali Küçükörenköy, Finishing Manager at Sezginler Tekstil.

\*Spot Uluslararası Tekstil Sanayi ve Mümessillik A.Ş.

“Adding the non-contact spray technology to the pad/foulard, is a decision we will never regret,” Mr. Küçükörenköy concludes.

#### Continuously even finishing quality

One of the major challenges of using pad/foulard is that the chemical concentration changes continuously during production and needs to be adjusted every 1000-1500 meters, depending on the type of application. This is not the case with non-contact spray finishing.

“With TexCoat G4, we can totally rely on a continuous and even application from the first meter of the fabric to the last,” explains Mr. Küçükörenköy.

“The same amount of chemical concentration is applied throughout the production, which was never the case with the old finishing method, where every meter of the fabric could have variations as the pad/foulard also being dirtier each meter,” Mr. Küçükörenköy continues.

#### Saving time and chemistry

In addition to the mentioned issues of the pad/foulard, it frequently needs to be drained of chemistry, as much as 50 liters, depending on the production. This equates to a considerably amount of chemistry and time going to waste at every drain. However, all the above issues are completely eliminated for Sezginler Tekstil with the four TexCoat G4 systems running.

“We don’t need to spend time on pad draining anymore and can anyway rely on a consistently even chemical concentration. It is clear that the TexCoat G4 has given us great production advantages in regards of saving considerably amount of time and chemistry,” concludes Mr. Küçükörenköy.

#### 50 % less energy consumption

Sezginler Tekstil’s energy consumption for drying reduced as much as 50% in the wet-on-dry application, thanks to the TexCoat G4. The non-contact spray system allows for a higher concentration of chemistry mix with lower pick-up requirements. And

with less wet pick-up, the fabric can pass through the stenter faster and with lower heat, reducing the energy consumption.

#### Single-sided finishing ability

Another advantage of the TexCoat G4 is the option of applying chemistry to one side of the fabric. This is of high value when running printed fabric –which Sezginler Tekstil regularly does – for avoiding unwanted pigmentation on the prints or when running fabric with one-sided finishing characteristics.

Applying chemistry on just one side is very cost-efficient since the chemistry consumption will be 50% less compared to a dual-sided application.

#### TexCoat G4 – a true success

So, this is a true success story; Sezginler Tekstil installed the TexCoat G4 spray finishing systems and gained increased uptime, even finishing quality, and considerably reduced chemistry and energy consumption.

## Fast facts

**Customer:** Sezginler Tekstil is a Turkish knitted fabric printing and dyeing company with a daily production capacity of 56 tons.

**Challenge:** Solving finishing quality issues and time-consuming dilution occurrences, especially in the wet-on-wet softener finishing process.

**Solution:** The contactless precision spray system, TexCoat G4 from Baldwin, added to the stenter lines in the softener finishing process.

**Benefits:** Practically zero chemical discharge. Continuously even finishing quality. Increased uptime. Reduced energy consumption. Single-sided finishing.



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