Novel effects with sodium hypochlorite on denim

Using Nofelding DP 773 Y08 and/or Nearbleach VE
Nofelding DP 773 Y08 is a glyoxal resin that can be used for fixing of permanent wrinkles and ‘whiskers’ in denim garments. At the same time, it can be used to produce a discharge reserve effect because the finish given by Nofelding DP773Y08 and catalyst Katalin DP774Y08 is so resistant to hypochlorite bleaching.

After bleaching with:
- 30 ml/l sodium hypochlorite 14-15%
- 1 g/l sodium carbonate
at 30°C for 15 minutes
Nearbleach VE
– bleach activator

If 200 g/l NEARBLEACH VE is applied here by spraying, EXTRA discharge will result on subsequent bleaching with sodium hypochlorite.

NOFELDING DP 773 Y08 200 g/l
KATALIN DP 774 Y08 40 g/l applied here by spraying

untreated area
Denim fabric at start
Chlorine resist where Nofelding DP 773 Y08 has been applied

NOFELDING DP 773 Y08 applied to denim fabric by coating.
The smaller piece has then been subjected to hypochlorite bleaching.
Different effects

Nofelding DP773Y08 + Katalin DP774Y08 applied by spraying all over – then double bleached
The combination of **NOFELDING DP773 Y08** and **KATALIN DP774 Y08** (dedicated catalyst) gives a permanent wrinkle effect that resists a hypochlorite bleach. The areas where the resin is printed or sprayed stay darker. Using **NEARBLEACH VE** on the same fabric (in different areas), interesting contrast effects can be obtained.
Garments were sprayed with:
100 g/l NOFELDING DP 773 Y08
and 20 g/l KATALIN DP 774 Y08
dried, cured, scraped, double bleached with 30 ml/l sodium hypochlorite for 30 minutes.
Nearbleach VE
as chlorine bleaching booster

To show effectiveness of NEARBLEACH VE
three identical legs of scoured denim jeans have been treated as follows:

A) sprayed inside-out with 100g/l NEARBLEACH VE, dried at 60°C, bleached with 20 ml/l sodium hypochlorite 14-15% at 40°C for 15 mins.

B) sprayed inside-out with 100g/l NEARBLEACH VE, dried at 60°C, bleached with 20 ml/l sodium hypochlorite 14-15% at 40°C for 45 mins.

C) not sprayed, only bleached with 20 ml/l sodium hypochlorite 14-15% at 40°C for 45 minutes.

Where NEARBLEACH VE has penetrated from inside to outside part of fabric (except pockets, sewing, doubled fabric, etc) the bleaching effect is higher.