

# NEVOSIL® TWR 45

*Water Repellent for Textiles*

## Characteristics

Methyl hydrogen polysiloxane emulsion.

## Properties

- ✓ Imparts water repellent/waterproof properties to fabrics
- ✓ No adverse effects on breathing ability of fabrics
- ✓ Introduces soft and slippery touch to fabrics
- ✓ Provides resistance to washing (40°C) and dry-cleaning

## Application

NEVOSIL® TWR 45 in combination with its catalyst CATALYST C 7125 is used to render all types of textile materials waterproof. Thanks to the excellent combination of active matter and catalyst, this finishing system introduces soft and drapable touch as well as water repellent/waterproof properties to fabrics. Besides that, it doesn't have a negative effect on the breathing ability of fabrics.

## Technical Data

Product	NEVOSIL® TWR 45	CATALYST C 7125
Appearance	White liquid	White liquid
Solid content (%)	45 (±1)	25 (±1)
Emulsifier type	Non-ionic	Non-ionic

\* These figures are only intended as a guide and should not be used in preparing specifications.

## Processing

Product	Quantity in mixture (combination)
NEVOSIL® TWR 45	25-45 (g/l)
CATALYST C 7125	2-4 (g/l)

The mixture is prepared by first adding NEVOSIL® TWR 45 and then the catalyst CATALYST C 7125, by stirring at low period into previously acidified water with adjusted pH value of 4,0-5,0. It is important to control the pH value of bath below 5,0 all the time. Bath stability should vary between 4-8 hours depending on the hardness of water used, the bath concentration, and the additional agents in combination. The mixture prepared with NEVOSIL® TWR 45 can be applied by padding or spraying methods.

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### Processing

NEVOSIL® TWR 45 water repellent finishing system is generally compatible with other finishing agents; however, preliminary tests should be done before the application to see their compatibility.

In order to obtain the best water repellent/waterproof effect, fabrics to be finished must be prewashed thoroughly and disturbing wetting and washing agents must be rinsed off. In addition, required drying times should be followed by a short post-drying at 120-160°C for 10-12 minutes, depending on the individual fabric type and usual drying temperature. Water repellent effects could also be obtained after storage at a room temperature for several days.

### Storage / Shelf Life

NEVOSIL® TWR 45 has a shelf life up to 9 months if stored in tightly closed original containers between 5-35°C. If the material is kept beyond the shelf life recommended, it is not necessarily unusable, but quality control should be performed on the properties relevant to the application. The containers must be protected against sunlight and frost.

### Packaging

30, 60, 120 and 220 kgs plastic drums or 1,000 kgs IBC containers.

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