SAFETAN MW 005

SAFE RETANNING AGENT FOR IMPROVED GRAIN TIGHTNESS AND WATERPROOF UNIFORMITY

SUITABLE APPLICATIONS:

✔ shoe upper
✔ bag leather
✔ upholstery
✔ automotive leather

PRODUCT BENEFITS:
SAFETAN MW 005 is a melamine resin that adds genuine value when producing formaldehyde free waterproof leathers.

Smit & Zoon guarantees that SAFETAN MW 005 does not contribute to formaldehyde release from leather. Besides this, other advantages are obtained when compared with common formaldehyde based melamine resins:

- Improved waterproofness uniformity and consistency in terms of Maeser values.
- The degree of waterproofing in the looser structured parts, where this class of products preferably and most effectively acts, is notably increased when SAFETAN MW 005 is applied.
- Uniform grain tightness without overloading the grain and underlying fibres.
- Increased intensity of dyeing results in leather with significantly improved tightness and fullness.
- It will not contribute to any formaldehyde release from leather.
- It is free of chemicals that are listed on restricted substance lists.

Due to the chemical composition of SAFETAN MW 005 the product is selective absorbed by the looser structures of the hide. As result the main amount of SAFETAN MW 005 applied will be fixed and bound in the areas that need tightening, although the remainder of the hide benefits as well.
APPLICATION ADVISE FOR SAFETAN MW 005:

Waterproof leathers

Performance:
SAFETAN MW 005 acts positively on the waterproofing process, where conventional products show undesired interactions with the waterproofing agents applied.

How to achieve optimal performance:
SAFETAN MW 005 can be applied at various stages of the retanning process, yet optimal performance is obtained based on a different application per article. In all cases however a very even degree of through-neutralization - not necessarily at high pH - is a prerequisite before applying the resin. SAFETAN MW 005 performs particularly well when used in combinations with Synthol EW 321 and Synthol DS 600. These waterproof fatliquors are perfectly pourable liquids that easily emulsify in water.

- Neutralize & wash
- Add 1-2% SYNTHOL EW 321 or SYNTHOL DS 600 for 20 minutes
- Add 3% SYNTAN RS 540 for 30 minutes
- Add 2-5% SAFETAN MW 005 with other retanning agents and run for 45 –60 minutes

Upper leathers:

Performance:
SAFETAN MW 005 is recommended for the retannage of all upper quality upper leathers. The leathers achieved have a very tight grain and a fuller handle than obtained with conventional melamine resins.

How to achieve optimal performance:
SAFETAN MW 005 can be applied for shoe uppers in quantities of 2-5%, whereas the applied quantities depend on the specific needs of the material chosen.

SAFETAN MW 005 is best used after a pre-fatliquor and acrylic resin (fresh retanning float) and run for 30 minutes before other chemicals are applied. This approach results in uniform tightness and fullness of the hide.

- Neutralize & wash
- Add 1-2% pre-fatliquor for 15 minutes
- Add 3% SYNTAN RS 540 for 30 minutes
- Add 2-5% SAFETAN MW 005 with other retanning agents and run for 45 –60 minutes
Furniture upholstery:

*Performance*:
On furniture upholstery leathers SAFETAN MW 005 minimizes the loss of area from empty parts.

*How to achieve optimal performance*:
SAFETAN MW 005 is best applied together with the other retanning agents. It is recommended to use 2-4% SAFETAN MW 005 for this. For enhanced fullness and improved regularity it is advised to combine SAFETAN MW 005 with 1-2% SAFETAN DD 001. Softer articles with milling pebble benefit from SAFETAN MW 005’s additional filling of less compact structures: smaller quantities suffice and it is recommended to apply 1-3%.

For furniture upholstery, SAFETAN MW 005 is best used in combination with regular soft retanning agents such as SYNTAN S and/or SYNTAN SF 156.

- Neutralize & wash
- Prefatliquor SYNTHOL GS 616 and SYNTHOL CU 909 for 20-30 minutes
- Add 2-4% SAFETAN MW 005 with 4% SYNTAN S or SYNTAN SF 156 and run for 45 minutes and continue in the same float
- Fatliquor

Car upholstery:

*Performance*:
Car upholstery leathers benefit from SAFETAN MW 005 resulting in an improved tightness and fullness throughout the hide.

*How to achieve optimal performance*:
For optimal performance is obtained when 2-4% SAFETAN MW 005 is used during the retanning process. The product can be added together with the other retanning agents.

SAFETAN MW 005 is best used in combination with SAFETAN DD 001 and the other retanning agents after the acrylic resin has run for 20-30 minutes. This approach results in uniform tightness and fullness of the hide.

- Neutralize & wash
- Add 2-3% SYNTAN RS 540 for 20-30 minutes
- Add 2-4% SAFETAN MW 005 with 2-3% SAFETAN DD 001 and the other retanning agents and run for 30 minutes
- Continue in the same float

**PRODUCT CHARACTERISTICS:**
guarantee: adds zero formaldehyde to leather
chemical base: formaldehyde free melamine resin, aromatic sulfonic acid condensate
active matter: > 93%
appearance: beige powder
pH (10% solution): 7.0 - 8.0

STORAGE LIFE:
SAFETAN MW 005 has a shelf life of at least two years when stored in the original sealed packaging at temperatures between 5 °C and 40 °C.