

UNITAN LEATHER TANNING AGENTS / Formulae

5. Metal Free Shoe Upper & leather goods with good lightfastness (UNITAN TM)

Pickled and split skin. % over pickled weight +50%.

4-6 RPM	50%	Pickled bath	pH: 3,8/4,0 °be: 6
	2,5%	Glutaraldehyde	Run 120 min
	0,3%	Sodium bicarbonate	
	3%	Naftalen sulphonic	Run 60 min pH: 4,3/4,5
	13%	UNIQUE TR	Run 60 min
	1%	Soft synthetic oil	
	1%	Sulphonic oil	Run 10 min
	3%	Phenolic Syntan	Run 20 min
	13%	UNITAN TM	Run 4 hs. Automatic over night (10'/hr.) Complete penetration
Add	200%	Water 40 °C	Run 5 min
	1%	Formic Acid	Run 30 min /pH: 3,6 -Drain-
Wash	200%	Water 25°C	
	0,5%	UNICLAR	Run 30 min - Drain-

Pile rest – Drain – shave

RETANNING (% over shaved weight)

	200%	Water 30 °C	
	1,5%	UNICLAR	Run 30 min - Drain -
Wash	300%	Water 25 °C	Run 10 min - Drain -
	100%	Water 25 °C	
	1%	Sodium bicarbonate	
	2%	Sodium acetate	Run 60 min pH: 4,6/4,8 -Drain-
	100%	Water 25 °C	
	5%	UNIQUE TR	
	5%	Phenolic Syntan	
	4%	Diciandiamide resin	Run 45 min
Add	100%	Water 45°C	
	4%	Styrenomaleic resin	Run 20 min
	5,0%	Lanoline oil	
	7,0%	Phosphoric ester oil	
	3,0%	Sulphated neat's foot oil	
	2,0%	White pigment	Run 60 min
	1%	Formic Acid	Run 30 min pH: 3,6 -Drain-
	300%	Water 25°C	
	0,5%	UNICLAR	Run 10 min - Drain -

Unload / Pile / Drain / vacuum 50°C / 1 min / hang / conditioning.