



© GEPA / Athlete: Clement Noel

RACE GUIDE

ALPINE/BOARD English Version



The International Ski and Snowboard Federation (FIS) and the International Biathlon Union (IBU) have issued a complete ban on ski preparations containing fluorine for all FIS and IBU competition series since the 2023/2024 season.

The Europe-wide ban on ski preparations containing fluorine has not yet come into force. They may continue to be sold without restriction in specialist sports shops.

HOLMENKOL welcomes the planned European legislation on the ban on ski preparations containing fluorine and has completely discontinued the production of these products.

All HOLMENKOL ski waxes from the Race Guide are "MADE IN GERMANY" and comply with the current EU regulation.

Our team is looking forward to seeing you again at one of our numerous specialist seminars, which will once again focus on just one thing – the "License to WIN!"

We wish you an exciting and successful season!

Your HOLMENKOL Team

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The following operations are involved in edge processing:

1. Inspection of the running surface
2. Processing the underside of the edge (running surface)
3. Processing the side edge
4. Edge finish
5. Edge repair

1. Inspection of the running surfaces

The running surfaces should be checked from time to time (with a straight edge). The following views may become apparent:

1.1 Concave tread

Base hollow on the inside. Ski/board rests on edge, there is therefore poor turning and a tendency to cut.



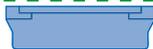
1.2 Convex tread

Base curved outwards. Edges have poor contact, ski/board is difficult to control.



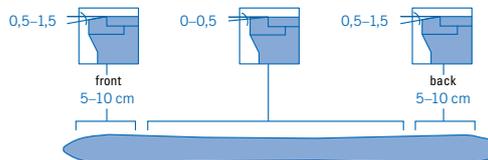
1.3 Flat tread

Running surface forms a plane from edge to edge. The ski/board rests on the surface and edge and is easy to control and easy to turn with the right edge tuning. **If the ski/board is not flat, we recommend having the ski/board ground flat by a qualified ski service.**



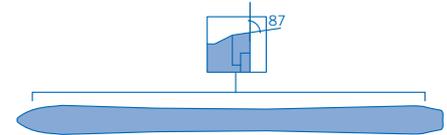
2. Processing the underside of the edgeband (=suspended sanding)

Ski/board edges should be sharpened at the front and at the ski/board end hanging outwards. This improves the turning ability enormously. (24450 Base Edge File Guide))



3. Processing the side edge (=rear grinding)

The side edges are precisely ground with edge grinders. The ridge angle can vary depending on the discipline (e.g. downhill skiing/SuperG/giant slalom: 88°-87°, special slalom 88°-86°). **Professional edge grinders (e.g. Steel Edge Worldcup) are used to precisely grind the side edge).**



4. Edge finish

Freshly sharpened and extremely sharp edges at the end of the ski/board and in the shovel area prevent the skis/board from turning easily and easily cause skiing errors. For this reason, the edges in the rear and front shovel area are slightly softened over a length of 5 to 15 cm (sanding rubber!). The edge grip is retained and the ski/board retains its turning ability. Edges at the rear and front end of the ski/board, which have nothing to do with the handling characteristics of the ski/board (the part of the edge which has no contact with the piste when the ski is straight), should be rounded off.

5. Edge repair

Stones on the slope can cause hardening in the edge, as the contact between the edge and the stone briefly generates a great deal of heat. This changes the surface of the edge and makes it denser than the surrounding material. These areas can hardly be removed with conventional files and the result is imprecise work. These hardened areas can only be removed with blue diamond files or an aluminum oxide stone. Rework with the diamond file green or red.



All HOLMENKOL® Base, Race and Worldcup Finish Waxes have information on the processing temperature on the packaging. Nevertheless, as with work in any workshop, certain precautions must be taken and rules observed when preparing skis:

- Always ventilate the work area well!
- Do not expose waxes to open flames or appliances with exposed heating wires!
- Do not smoke during processing!
- Only use special wax irons!
- The specified wax temperatures should not be exceeded! (Avoid smoke development!)
- Racing Waxes should be ironed in at 115 °C to max. 130 °C and Worldcup Finish Waxes at 150 °C to 160 °C. Higher temperatures are not necessary

HOLMENKOL® Syntec FF1 Powders are **NOT** toxic and **NOT** harmful to the environment. At temperatures above 165 °C, however, toxic compounds may be formed. Therefore, avoid open fires, embers or equipment with exposed heating wire during processing. Ensure good ventilation during processing and, if possible, use respiratory protection, especially when brushing.

- When using liquids or spray products, ensure adequate ventilation and do not inhale spray mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
- If surface cleaners are used, ensure good ventilation and do not inhale vapors directly!



New skis should be primed before first use. The same applies to skis that have been resharpened and structured.

The first preparation is important for deep penetration of the ski base with wax. The mechanical structuring of the base creates fine hairs, which are removed by the base preparation. At the same time, this is a base protection for the following edge preparation.

i You will need the following items for this application:

Waxing Table	Art. No. 20725/-26/-28
Super Pro Plus Worldcup	Art. No. 24432
Base Edge File Guide	Art. No. 24686
Alternative: Base Edge File Guide Set	Art. No. 24623
Pad Set	Art. No. 24495
Wax Ab – Wax Remover Spray	Art. No. 24410
Care Fleece	Art. No. 24490
HOLMENKOL® Base Wax (s. Wax Chart p. 24)	
Digital Racing Waxer	Art. No. 24582
Alternative: Smart Waxer	Art. No. 20603
Plastic Scraper	Art. No. 20630
Carve Edge	Art. No. 24457
Side Wall Planer/Pro	Art. No. 24456/24498
Steel Edge Worldcup	Art. No. 24475
Alternative: Semi/Profi Edger	Art. No. 24496/24497
Cross File Mini	Art. No. 20521
Racing File (S)	Art. No. 2052900000
Diamond File Worldcup Medium	Art. No. 24483
Grinding Rubber	Art. No. 20550
Oval Brush Steel	Art. No. 24522
Alternative: Speed Brush Bronze	Art. No. 20674

7



Always clamp skis/boards firmly in ski/board clamps during preparation.

2



If the covering has been freshly ground, use a sharp scraper (plexi or stainless steel blade) to remove the fine covering hairs.

3



Grind the ski/board flat with the Base Edge File Guide and Racing File (0.5°). Sand the edge 1.0° to 1.5° hanging in the front and rear area with the Base Edge File Guide (depending on requirements and skiing ability).

4



Lightly roughen the base with the padset. This ensures better wax absorption.

5



Lightly roughen the base with the Pad Set. This ensures better wax absorption.

6



Wax the ski base with Base Wax (Alphamix Yellow/Betamix Red) and allow to cool.

-->CONTINUE

7



Remove the wax, do not forget the edge, the recess on the Plastic Scraper is suitable for this.

8



Brush the wax out of the structure using the Oval Brush Steel (note the direction of the arrow!) or the Speed Brush Bronze.



9



Mask the covering with plastic adhesive tape, thus protecting the running surface against soiling during further processing of the side edge.

10



With the Carve Edge, it is possible to remove any protruding side panel in a single step and simultaneously sand the edge.

11



As an alternative to the Carve Edge, this can also be done in 2 steps. First, use the Sidewall Planer Pro to remove the side-wall...

12



...and then grind the edge with the Steel Edge Worldcup or with the Profi Edger and the Racing File Mini.

13



Finish with the Diamond File Worldcup medium.

14



Use the grinding rubber to slightly soften the extremely sharp edge at the front and rear.

15



Use a sharp Plastic Scraper to remove the slightly soiled surface of the covering.

16



Apply Base Wax again and iron into the base.



This process (waxing, stripping, brushing) can be repeated several times in order to saturate the coating sufficiently.



You can find detailed videos about the applications on our YouTube Channel.



with HOLMENKOL® Base und Racing Wax

Ski/board was prepared as in the basic preparation (flat grinding, hanging grinding, back grinding of the edges, basic waxing, see p. 12 ff.).

You will need the following items for this application:

Super Pro Plus Worldcup	Art. No. 24432
HOLMENKOL® Base Wax (s. Wax Chart p. 24)	
Digital Racing Waxer	Art. No. 24582
Alternative: Smart Waxer	Art. No. 20603
Plastic Scraper	Art. No. 20630
Oval Brush Steel	Art. No. 24522
HOLMENKOL® Racing Wax (s. Wax Chart p. 24)	
Care Fleece	Art. No. 24490

1



Cleaning the ski base:
Apply base wax (e.g. Alphamix Yellow, Betamix Red...)

...iron on...

...peel off...

...brush out.

2



Racing Wax (e.g. Syntec FF Bar). Allow longer processing times for harder waxes with a higher melting point. This increases the abrasion resistance (adhesion) of the waxes.

3



Clean the side wall and edge with Plastic Scraper.

4



Allow the ski/board to cool for at least 1 to 2 hours. Then use a sharp Plastic Scraper and light pressure to remove the wax from the tip to the end.

5



Brush out the covering with Oval Brush Steel to remove wax residues from the structure.

6



Remove wax residues with a Care Fleece.



Tip: To achieve the smoothest possible surface, repeat the processes stripping and brushing once or twice.



Tip: Apply pasty wax to the side (so that no snow sticks to the sidewall) and polish with Care Fleece.



mit Racing Wax Liquid:

i You will need the following items for this application:

Syntec FF2 Liquid	
Care Fleece	Art. No. 24490
Alternative: Speed Brush Fleece	Art. No. 20688
Oval Brush Bronze	Art. No. 24520
Oval Brush Nylon	Art. No. 24530

1



Shake the contents well before use.

2



Soak the Care Fleece with the liquid wax and apply a thin, even layer.

Leave on briefly and then work in with Finish Cork.

3



Brush out with Oval Brush Bronze.

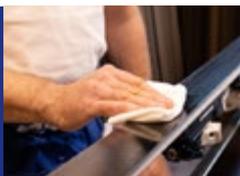
Wipe off wax residue with Care Fleece.

4



Finish with Oval Brush Nylon.

5



Remove the last wax residue with Care Fleece.



You can find detailed videos about the applications on our YouTube Channel.



© GEPA / Athlete: Lukas Feurstein



with Worldcup Finish Liquid:

i You will need the following items for this application:

Syntec FF1 Liquid	
Finish Cork	Art. No. 20645
Oval Brush Bronze	Art. No. 24520
Oval Brush Nylon	Art. No. 24530
Care Fleece	Art. No. 24490

1  Shake the contents well before use.

2  Soak the Care Fleece with the liquid wax and apply a thin, even layer.
Leave on briefly and then work in with Finish Cork.

3  Brush out with Oval Brush bronze.
Wipe off wax residue with Care Fleece

4  Finish with Oval Brush Nylon.

5  Remove the last wax residue with Care Fleece.



You can find detailed videos about the applications on our YouTube Channel.

with Worldcup Finish Powder:

HOLMENKOL® High performance Finish Powder is used after the base preparation (base and racing wax).

i You will need the following items for this application:

Syntec FF1 Powder	
Alternative: Digital Racing Waxer	Art. No. 24422
Alternative: Smart Waxer	Art. No. 20603
Plastic Scraper	Art. No. 24533
Oval Brush Bronze	Art. No. 24520
Oval Brush Nylon	Art. No. 24523
Care Fleece	Art. No. 24490

1  Apply Syntec FF1 Powder evenly.

2  Fix briefly with the waxing iron.

3  Peel off with Plastic Scraper.

4  Brush out with Oval Brush Bronze.
Wipe off wax residue with Care Fleece

5  Finish with Oval Brush Nylon.
Then wipe the surface again with Care Fleece.

After the race is before the race

You will need the following items for this application:

Oval Brush Steel	Art. No. 24522
Digital Racing Waxer	Art. No. 24422
Alternative: Smart Waxer	Art. No. 20603
HOLMENKOL® Base Wax (s. Wax Chart p. 24)	



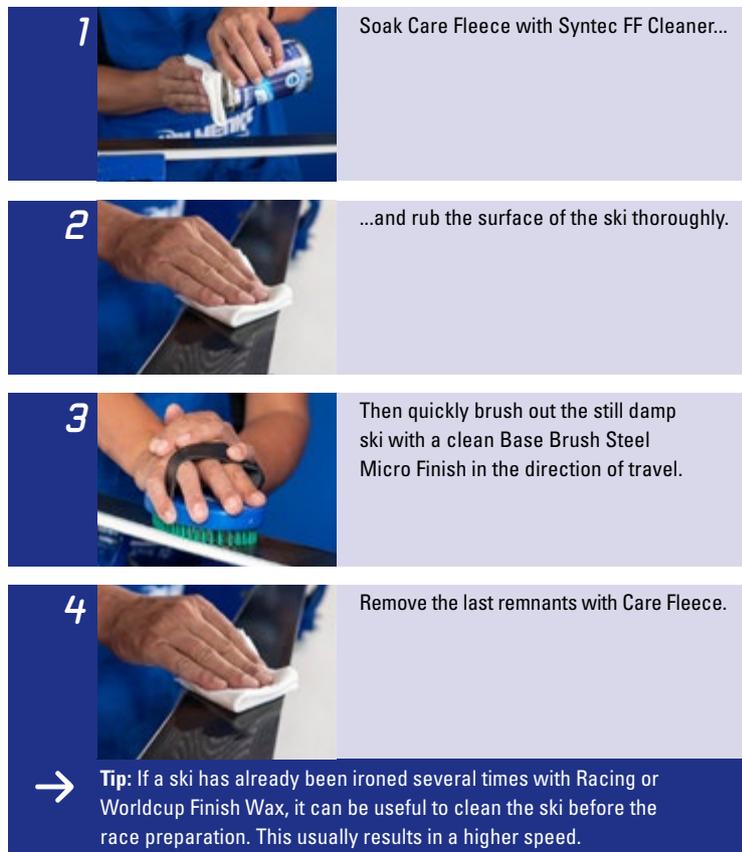
Hinweis:

After using the skis/board (race/training) brush out the base and apply Base Wax (do not remove the wax).

The use of Racing and Worldcup Finish Wax can impair the wax absorption of the coating. The HOLMENKOL Syntec FF Cleaner dissolves wax residues and stubborn soiling and is gentle on the kerosene base.

You will need the following items for this application:

Syntec FF Cleaner	Art. No. 27519
Care Fleece	Art. No. 24490
Base Brush Steel Micro Finish	Art. No. 24523



You can find detailed videos about the applications on our YouTube Channel.

The skis/boards should be checked regularly. In the event of damage, proceed as follows before race preparation:

i

You will need the following items for this application:

Diamond File Worldcup Coarse	Art. No. 24484
Alternative: Oxyd Mini	Art. No. 20561
Repair-Strips (black)	Art. No. 24403
Cross File Maxi	Art. No. 2052000000
Stainless Steel Scraper	Art. No. 20635
Pad Set	Art. No. 24495

1



If the edge is hardened use Diamond World Cup File Coarse...

or:



...pre-treat with the oxide stone.

2



Fill any damage (scratches/holes) with Repair-Strips. To do this, simply light the Repair-Strip and drip on from a short distance.

3



After cooling, remove excess material from the Repair-Strips with a Cross File...

or:



...Stainless Steel Scraper.

4



Smooth the repair area with Pad Set or sandpaper.



You can find detailed videos about the applications on our YouTube Channel.



WORLD CUP FINISH WAX

POWDER			LIQUID		
0 - 4° C	-4 - 12° C	-10 - 20° C	0 - 6° C	-6 - 12° C	-12 - 20° C

RACING WAX

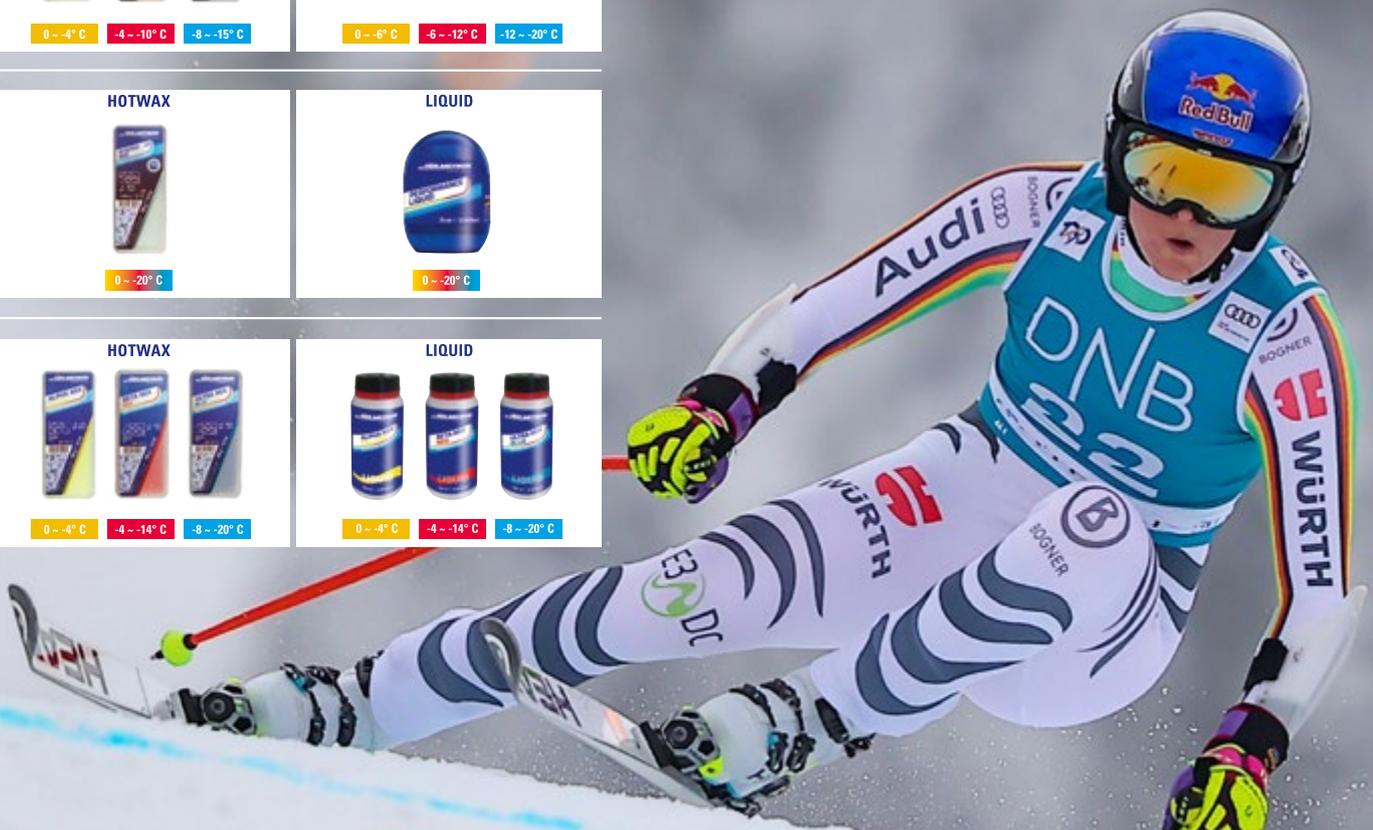
HOTWAX			LIQUID		
0 - 4° C	-4 - 10° C	-8 - 15° C	0 - 6° C	-6 - 12° C	-12 - 20° C

PERFORMANCE WAX

HOTWAX	LIQUID
0 - 20° C	0 - 20° C

BASE WAX

HOTWAX			LIQUID		
0 - 4° C	-4 - 14° C	-8 - 20° C	0 - 4° C	-4 - 14° C	-8 - 20° C



© GEPA / Athlete: Emma Aicher



EXPERT TIP



Alphamix YELLOW

24104 2 x 35 g

24101 150 g



Betamix RED

24114 2 x 35 g

24111 150 g



Ultramix BLUE

24124 2 x 35 g

24121 150 g



Syntec FF21 Bar

27911 2 x 35 g

27908 150 g



Performance Liquid

25022 75 ml



Alphamix YELLOW

0° ~ -4°C

wet to moist

115° ~ 125°

Betamix RED

-4° ~ -14°C

moist to dry

125° ~ 135°

Ultramix BLUE

-8° ~ -20°C

moist to dry

135° ~ 140°



Syntec FF21 Bar

0° ~ -20°C

fine/coarse/aggressive

140° ~ 150°

Performance Liquid

0° ~ -20°C

fine/coarse/aggressive



Alphamix YELLOW Liquid

24032 250 ml

24036 100 ml



Betamix RED Liquid

24033 250 ml

24037 100 ml



Ultramix BLUE Liquid

24034 250 ml

24038 100 ml



Alphamix YELLOW Liquid

0° ~ -4°C

wet to moist

Betamix RED Liquid

-4° ~ -14°C

moist to dry

Ultramix BLUE Liquid

-8° ~ -20°C

moist to dry



Sponge Applicator

27100 small (Ø 55x50 mm)

27110 big (Ø 90x50 mm)



Syntec FF Cleaner

27518 100 ml

27519 500 ml

100%
**PFC
FREE** ✓



Syntec FF Bar YLW

27104 2 x 35 g

27101 150 g



Syntec FF Bar RED

27114 2 x 35 g

27111 150 g



Syntec FF Bar BLU

27124 2 x 35 g

27121 150 g



Syntec FF Bar GRE

27131 150 g



Syntec FF Bar YLW 0° ~ -6°C fine/coarse/wet 115° - 125°

Syntec FF Bar RED -4° ~ -10°C fine/coarse/moist 115° - 125°

Syntec FF Bar BLU -8° ~ -15°C fine/coarse/aggressiv 120° - 130°

Syntec FF Bar GRE -15° ~ -30°C fine/aggressive 115° - 125°



Syntec FF2 Liquid YLW

27062 100 ml



Syntec FF2 Liquid RED

24063 100 ml



Syntec FF2 Liquid BLU

27064 100 ml



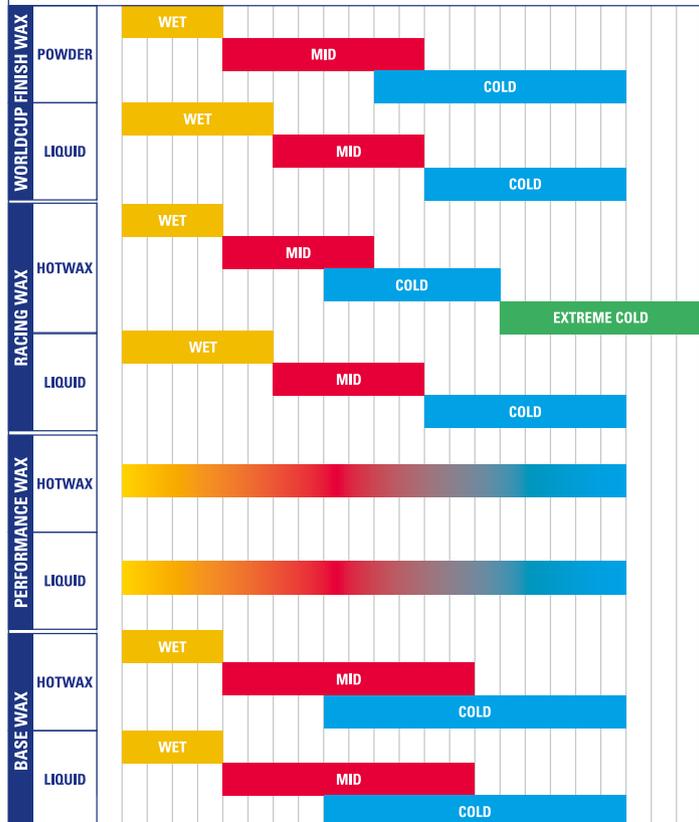
Syntec FF2 Liquid YLW 0° ~ -6°C fine/coarse/wet

Syntec FF2 Liquid RED -6° ~ -12°C fine/coarse/wet

Syntec FF2 Liquid BLU -12° ~ -20°C fine/coarse/aggressive

TEMPERATURE CHART

SNOW-TEMPERATURE 0° 32° -2° 28° -4° 25° -6° 21° -8° 18° -10° 14° -12° 10° -14° 7° -16° 3° -18° 0° -20° -4° -30° C -22° F





Syntec FF1 Powder YLW
27082 30 g

Syntec FF1 Powder RED
27083 30 g

Syntec FF1 Powder BLU
27084 30 g



Syntec FF1 Powder YLW	0° ~ -4°C	fine/coarse/wet	150° - 160°
Syntec FF1 Powder RED	-4° ~ -12°C	fine/coarse/wet	150° - 160°
Syntec FF1 Powder BLU	-10° ~ -20°C	fine/coarse/aggressive	150° - 160°



Syntec FF1 Liquid YLW
27072 50 ml

Syntec FF1 Liquid RED
27073 50 ml

Syntec FF1 Liquid BLU
27073 50 ml



Syntec FF1 Liquid YLW	0° ~ -6°C	fine/coarse/wet	
Syntec FF1 Liquid RED	-6° ~ -12°C	fine/coarse/wet	
Syntec FF1 Liquid BLU	-12° ~ -20°C	fine/coarse/aggressive	



EXPERT TIP



Syntec FF Cleaner

27519 500 ml

27518 100 ml



Cleaner

20421 500 ml

20422 1000 ml

20423 3000 ml



Wax Ab - Wax Remover Spray

24410 250 ml



Care Fleece

24490 27 m x 20 cm

24491 102 m x 20 cm

24492 20 pieces



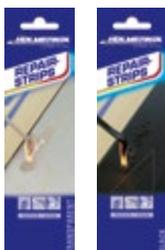
Wax Fleece

20620 100 pieces



Pad Set

24495 25 cm x 20 cm



Repair-Strips

24402 5 pieces (transparent)

24403 5 pieces (black)



Stainless Steel Scraper

20635 112,5 x 60 mm



Finish Cork

20645





Super Pro Plus Worldcup
24432



All-In-One 2.0
24441



Easy Ski Vise
24688



Board/Freeride Fix
20516



Waxing Table Alpin/Nordic 2.0
20725



Waxing Table Universal
20728



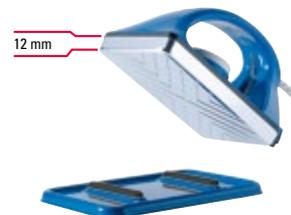
Digital Racing Waxer
24580 230 V 15 mm base plate
24581 110 V 15 mm base plate



Digital Racing Waxer Thick Plate
24582 230 V 26 mm base plate
24583 110 V 26 mm base plate



Electronic Racing Waxer
24420 230 V 15 mm base plate
24421 110 V 15 mm base plate



Smart Waxer (Abb. ähnlich)
20603 230 V 12 mm base plate
20604 110 V 12 mm base plate



Wax Pro 125 Waxing Machine
24426 Roll width 125 mm

Wax Pro 125 Spare Tray incl. roll
24427 Roll width 125 mm



BETAMIX Pastille RED
24115-P 1kg



Plastic Scraper
20630 130 x 60 x 3 mm
20631 130 x 60 x 5 mm
20633 330 x 40 x 6 mm



Scraper Sharpener Racing
24622

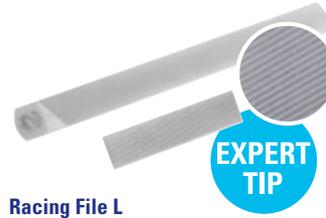
EXPERT TIP



Steel Edge Worldcup
24475



Carve Edge
24457



Racing File L
2052300000
Maxi 250 x 25 mm, 13 teeth/cm
20524
Mini 100 x 25 mm, 13 teeth/cm

TOP SELLER



Racing File M
20526
Maxi 200 x 20 mm, 15 teeth/cm
20527
Mini 100 x 25 mm, 15 teeth/cm

EXPERT TIP



Worldcup File Guide
24476 86°
24477 87°
24478 88°
24479 89°



File Guide Clamp Pro
24681



Racing File S
2052900000 150 x 15 mm, 18 teeth/cm



Oxyd Mini
20561



Profi Edger
24497

EXPERT TIP



Semi Edger
24496



Cross File
2052000000 Maxi 300 x 30 mm
20521 Mini 100 x 30 mm



Grinding Rubber
20550



Base Edge File Guide
24450

EXPERT TIP



Side Wall Planer Pro
24498



Diamond File Worldcup
24482 Fine
24483 Medium
24484 Coarse

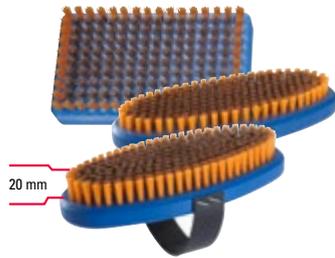
EXPERT TIP



Base Brush / Oval Brush Steel

24524 25 mm Base

24522 25 mm Oval



Base Brush / Oval Brush Bronze / Oval Brush Bronze long wire

24502 12 mm Base

24520 12 mm Oval

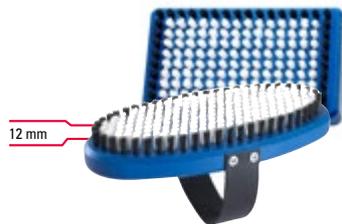
24534 20 mm Oval long wire



Base Brush / Oval Brush Horsehair

24513 8 mm Base

24533 10 mm Oval



Base Brush / Oval Brush Nylon

24510 8 mm Base

24530 12 mm Oval

EXPERT TIP



Base Brush / Oval Brush Steel Micro Finish

24503 12 mm Base

24523 12 mm Oval



Speed Brush Bronze

20674 120 mm



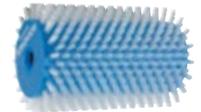
Speed Brush Fibre

20670 120 mm



Speed Brush Horsehair

20672 120 mm



Speed Brush Nylon

20671 120 mm

EXPERT TIP



Speed Brush Wool

20675 120 mm

EXPERT TIP



Speed Brush Fleece

20688 120 mm



Speed Stick Pro II

20685



Pro II Adapter

20687 Achse 240 mm (ohne Griff)

20684 Griff



Speed Shield Pro II (working protection)

20686 120 mm



Speed Stick Combi

20689 120 mm



HOLMENKOL recommends wearing a protective mask when using rotor brushes.

