




RAPID SOLUTIONS FOR SURFACE CONDITIONING

NON-WOVEN DISCS WITH:

-  2-3 TIMES
LONGER LIFE
-  PROCESS STAGE
ELIMINATION
-  REDUCED
REWORK



NORTON

SAINT-GOBAIN®

TM

RAPID CONDITIONING SOLUTIONS

New surface conditioning discs from Norton — engineered to save time and money in all preparation applications, offering performance, excellence and value for money.

PRODUCT FEATURES

- New resin system, aerospace-tailored
- Proprietary new coating system
- Extended form holding
- Improved hook and loop backing

USER BENEFITS

- Reduces smearing, even on high nickel content alloys
- Resists loading on aluminium and soft metals
- Thick layer of grain throughout product extends life; grain does not sit on top of fibres
- Lowest total cost of consumable tooling per work piece
- Strong fixing to rotary sanders
- Discs sit flatter on back-up pads, resulting in a more consistent finish on DA applications



APPLICATIONS

- Blending machining marks and uneven edges
- De-burring and removing surface defects
- Refining grind lines
- Casting and mould clean-up
- Light flash removal
- Applying suitable surface finish in preparation for painting



MARKETS

- Metal fabrication
- Aerospace
- MRO
- Transport
- Energy



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Use this QR code to view a product demonstration video or visit <http://www.loremipsum.com/dolorsitamet>

BETTER ++++

2x PERFORMANCE OVER COMPETITORS



GOOD +++

15% PERFORMANCE OVER COMPETITORS



1 SAVES MONEY
Extended product life and improved form holding

2 SAVES TIME
Eliminate up to 5 process stages in one application

3 REDUCES REWORK
Significantly reduces smearing and resists loading on soft metals

THE RAPID RANGE

The Norton Rapid Range of non-wovens provides a complete solution for all metal applications



STRIPPING



SURFACE CONDITIONING



DE-BURRING & BLENDING



BUFFING & FINISHING

VORTEX RAPID PREP

BETTER ++++



PRODUCT FEATURES

- New proprietary Vortex grain increases cut rate for quicker process time and improves product life, reducing disc change and consumption.
- Patented smear-free resin system leaves no deposits on the work piece

USER BENEFITS

- Most consistent surface conditioning product available
- Combines the cutting speed of a coarse grit with the finish of a fine
- Reduces up to five conventional abrasive grit sequences in technical blending operations
- More resistant to edge wear; up to 2x life vs. competitor products
- Friable grain structure keeps Ra specs throughout disc life and reduces scrap and rework

SAVES MONEY

2x product life vs. competitor

SAVES TIME

Reduces cycle times by up to 50%+

REDUCES REWORK

Significantly reduces smearing & resists loading on soft metals

RAPID PREP

GOOD +++



PRODUCT FEATURES

- High performance aluminium oxide (A/O) grain
- Patented smear-free resin system

USER BENEFITS

- Great cut rate combined with consistent surface finish on soft and hard materials
- Provides better grain utility while remaining flexible
- Longer product life time reduces disc changes and consumption
- Excellent blending performance on aluminium, resists clogging

SAVES MONEY

A cost-effective solution, up to 10% lower in price

SAVES TIME

Reduces process time by up to 35% on light de-burring and blending operations

REDUCES REWORK

Significantly reduces smearing & resists loading on soft metals

2 TO 3 TIMES LONGER LIFE

VORTEX RAPID PREP CASE STUDY

Market: Metal fabrication
 Material: 6000 series aluminium
 Against: 178mm surface conditioning hook & loop disc

RESULTS VS. COMPETITOR

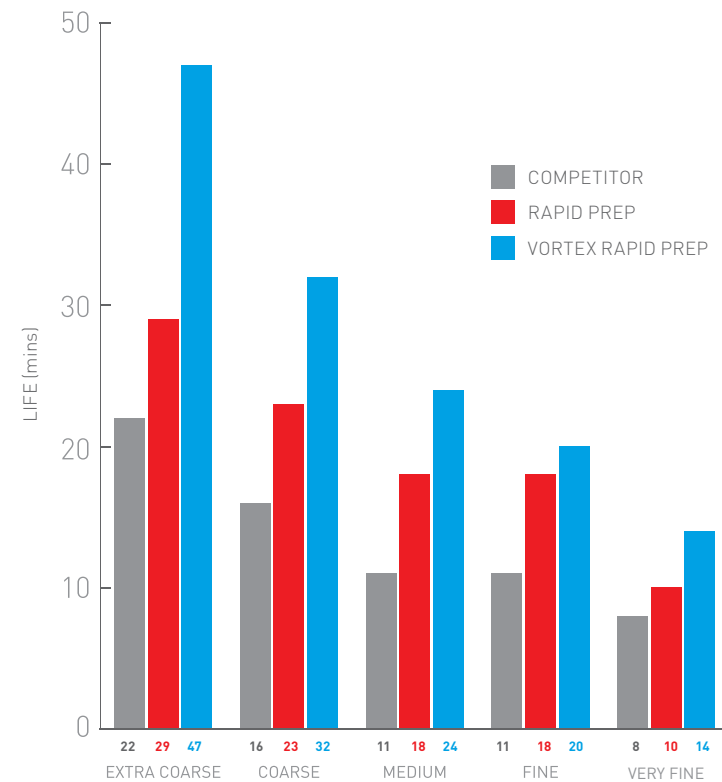
LASTED 26% LONGER
MORE RESISTANT TO EDGE TEAR
REDUCED CYCLE TIME BY 35%

RAPID PREP CASE STUDY

Market: Aerospace
 Material: 7000 series aluminium
 Against: 76mm MED A/O surface conditioning disc

RESULTS VS. COMPETITOR

4 PARTS VS 1 WITH COMPETITOR PRODUCT
CONSOLIDATED 2-STEPS INTO ONE
REDUCED CYCLE TIME BY 60%



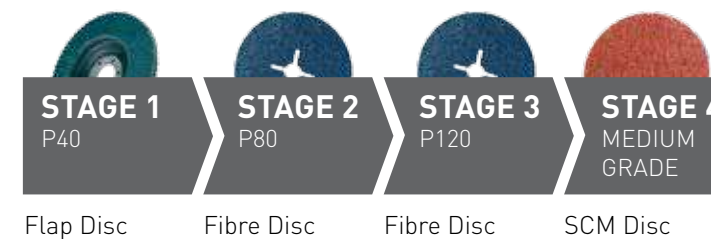
PRO TIP

Vortex Rapid Prep is the first surface conditioning product to use proprietary Vortex grain. A coarse disc will provide a surface finish like a medium or very fine disc, using one grade coarser achieves a similar finish while reducing cycle time.

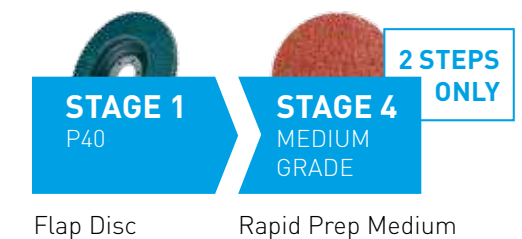
PROCESS STAGE ELIMINATION

Rapid Prep combines the cutting speed of a conventional abrasive coarse grit, with the finish of a fine, reducing the number of sanding stages needed in technical blending operations. Save money, save time and reduce rework.

STANDARD PROCESS



RAPID PREP PROCESS



REDUCED SMEARING

- Smearing on a work piece means costly rework
- Norton's patented resin system means smearing is drastically reduced



COMPETITOR A



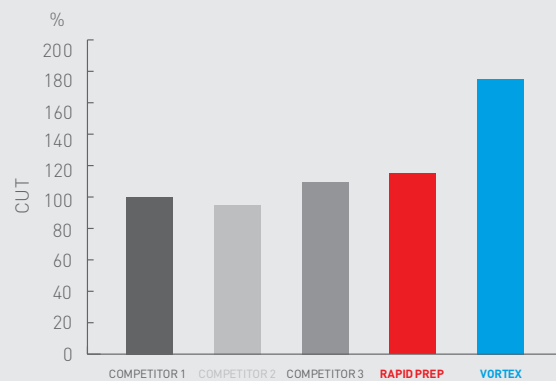
COMPETITOR B



RAPID PREP

SIGNIFICANTLY REDUCED SMEARING

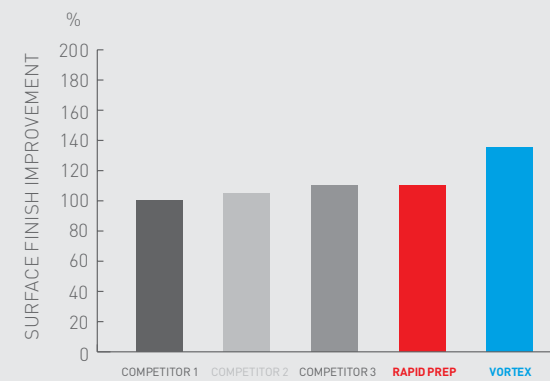
INTERNAL TESTING COMPETITOR COMPARISON



MATERIAL REMOVED RESULTS VS. COMPETITORS

VORTEX RAPID PREP REMOVES 65% MORE MATERIAL THAN LEADING COMPETITOR. RAPID PREP HAS A 5% INCREASE VS. THE SAME COMPETITOR*

* To obtain the full benefits of Vortex, use a good air compressor or high-power tool. Rapid Prep can be used with standard tooling systems.



SURFACE FINISH IMPROVEMENT RESULTS VS. COMPETITORS

VORTEX RAPID PREP IMPROVES SURFACE FINISH BY 25% VERSUS THE LEADING COMPETITOR

Vortex and Rapid Prep provide a higher cut-rate with better surface finish.

SUCCESS STORY

AIRCRAFT OVERHAUL & REPAIR CONTRACTOR

Epoxy adhesive removal from carbon fibre inner skin of fuselage.



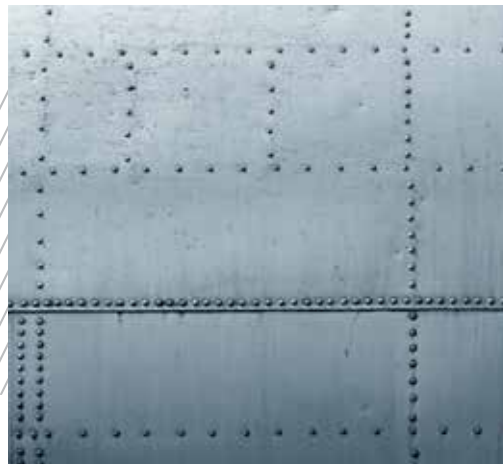
PARAMETERS

- Two 30cm² areas were sanded using a die grinder
- One area was sanded with medium grade Rapid Prep, the other with a coarse competitor disc, both 75mm

RESULTS

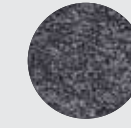
- The competitor disc took 8 minutes 33 seconds (using 4 separate discs)
- Norton Rapid Prep took 6 minutes 54 seconds (using 3 discs)

The Norton Rapid Prep discs showed a 33% life improvement and 15% higher cut rate.

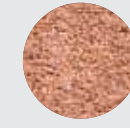


COLOUR CODED GRADING SYSTEM

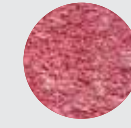
New industry-standard grit colour coding makes use and conversion easy.



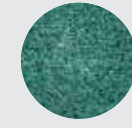
EXTRA COARSE



COARSE



MEDIUM



FINE

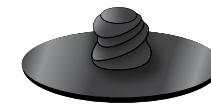
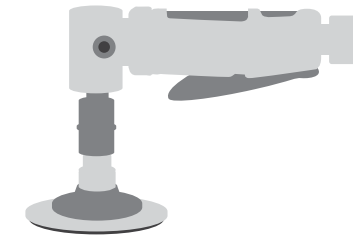


VERY FINE

MACHINE FIXING SYSTEM

BUTTON FIXING SYSTEM FOR SPEEDLOK

QUICK-CHANGE DISCS (19 - 100mm OD)



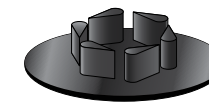
Type TR (Type III)

- Features a roll-on / roll-off style fastener
- Fastener is made of plastic
- Equivalent to 3M Roloc fastening system



Type TS (Type II)

- Features a turn-on / turn-off style fastener
- Fastener is made of plastic
- Equivalent to Standard Abrasives' SocAtt locking system



Type TP (Type I)

- Snap-on / snap-off system which enables quick, easy disc changing, reducing downtime and operating expenses
- Fastener is made of nylon

HOOK & LOOP (NORGRIP) DISCS FOR ANGLE GRINDERS



- Without hole up to 1200mm OD (most popular in 115, 127 & 178mm on angle grinder)
- With 22mm hole (115 - 178mm OD) up to 550mm OD in MTO



BACK-UP PADS

Use the correct density back-up pad for the machine and work piece material.

Back-up pads TR Attachment (Type 3 - SL3)



Speedlok Quick Change			
DIA (mm)	QTY	Density	Rubber with Spindle
25	1	Medium	63642556628
38	1	Medium	63642556629
50	1	Medium	07660717817
	1	Hard	63642586931
75	1	Medium	63642556631
	1	Hard	66254401460

Back-up pads TS Attachment (Type 2 - SL2)



Speedlok Quick Change			
DIA (mm)	QTY	Density	Rubber with Spindle
15	1	Medium	66254401994
25	1	Medium	07660718963
38	1	Medium	07660707032
50	1	Medium	63642501157
	1	Hard	63642586926
75	1	Medium	07660707384
	1	Hard	63642586932

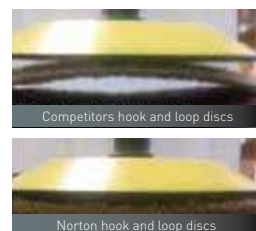
Back-up pads



Norgrip for Rapid Prep				
DIA (mm)	QTY	Density	M14	Rubber with Spindle
115	1	Medium	M14	69957382846
125	1	Medium	M14	69957382841
178	1	Medium	M14	69957382844

PRO TIP

Use SpeedLok discs with Norton back-up pads for best results. Other brands of back-up pad may not be as effective. Test using a pad 1 or 2 sizes smaller than the disc diameter (where appropriate).



PUT VORTEX & RAPID PREP TO THE TEST

TEST KITS AVAILABLE

Vortex Rapid Prep	50mm x 5 grades	66623386187
Vortex Rapid Prep	75mm x 5 grades	66623386185
Rapid Prep	50mm x 5 grades	66623386188
Rapid Prep	75mm x 5 grades	66623386186



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Use this QR code to view a product demonstration video or visit <http://www.loremipsum.com/dolorsitamet>

www.norton.eu

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