



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



Use this QR code to view a product demonstration video or visit www.saint-gobain-abrasives.com

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

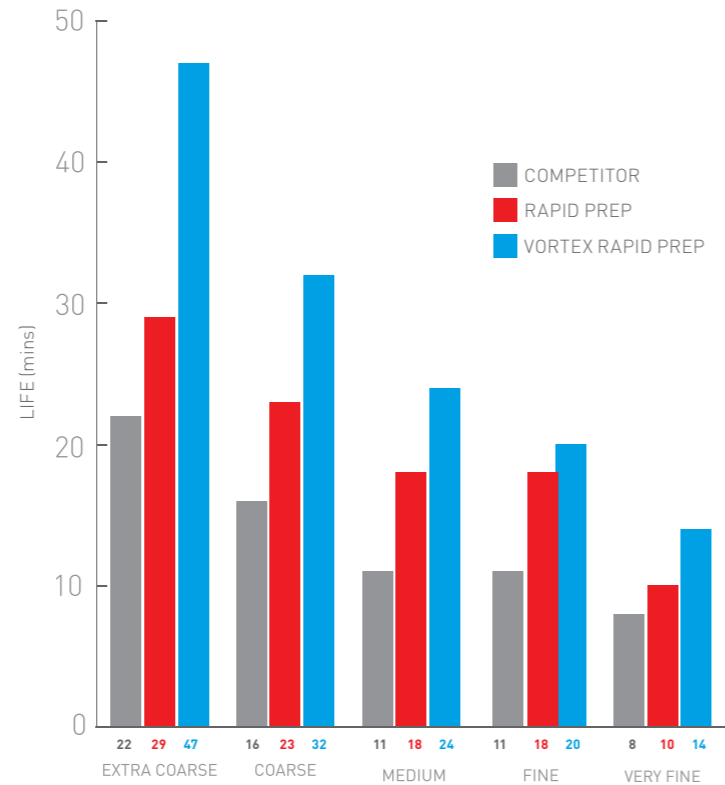
LASTED 26% LONGER
MORE RESISTANT TO EDGE TEAR
REDUCED CYCLE TIME BY 35%

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.

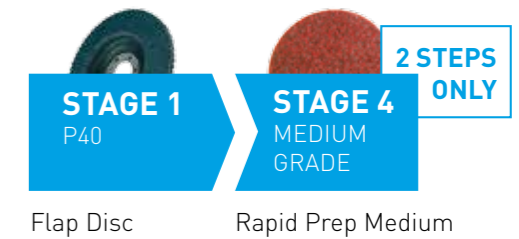
PROCESS STAGE ELIMINATION

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



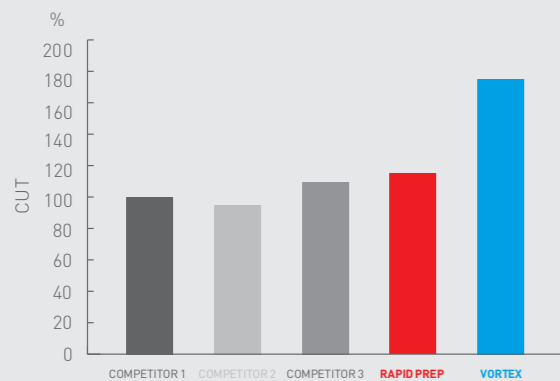
COMPETITOR B



RAPID PREP

SIGNIFICANTLY REDUCED SMEARING

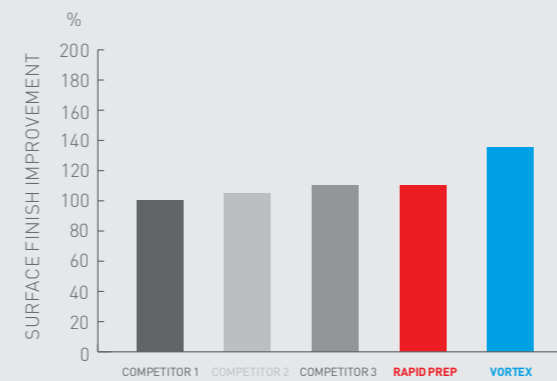
INTERNAL TESTING COMPETITOR COMPARISON



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.



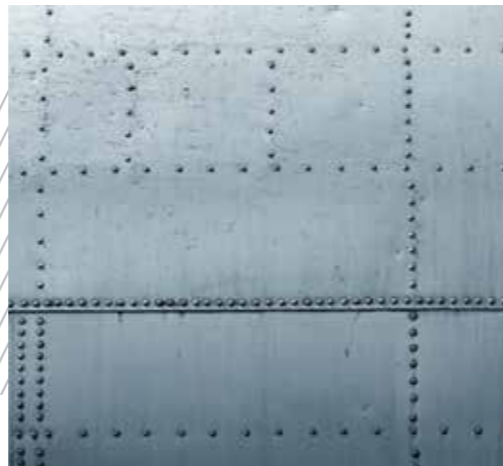
PARAMETERS

- 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

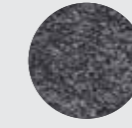
- The competitor disc took 8 minutes 33 seconds (using 4 separate discs)
- Norton Rapid Prep took 6 minutes 54 seconds (using 3 discs)

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

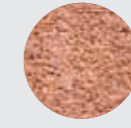


COLOUR CODED GRADING SYSTEM

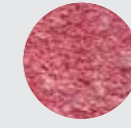
New industry-standard grit colour coding makes use and conversion easy.



EXTRA COARSE



COARSE



MEDIUM



FINE

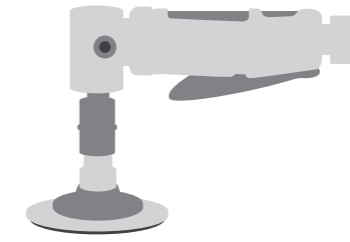


VERY FINE

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)

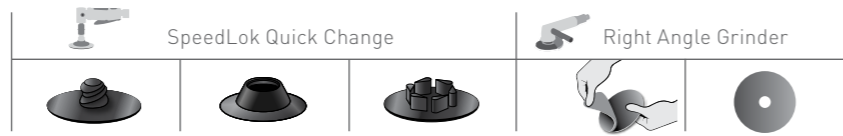
- Snap-on / snap-off system which enables quick, easy disc changing, reducing downtime and operating expenses
- Fastener is made of nylon

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

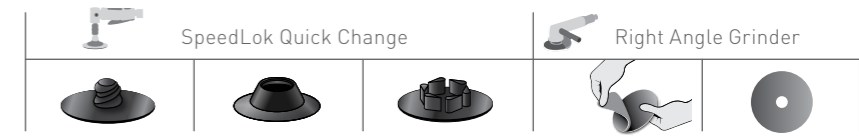




ORDERING INFORMATION

DIA mm	QTY	TR	TS	TP	Hook & Loop (NORGRIP) Plain Disc	Disc with 22mm hole
EXTRA COARSE						
19	50	66623325001	66623335324	66623325000		
25	50	66623325004	66623325003	66623325002		
38	50	66623325007	66623325006	66623325005	66623325061	
50	50	66623378336	66623335325	66623325008	66623334970	
76	25	66623378337	66623325010	66623325009	6662333620	
100	25	66623335329	66623335328	66623325011	66623334971	
115	25				66623378971	66623334973
127	25				66623378972	66623334975
150	25				6662333621	66623341359
178	25				66623378973	66623341360
200	25				66623334977	
COARSE						
19	50	66623325013	66623335410	66623325012		
25	50	66623325015	66623335537	66623325014		
38	50	66623335411	66623325017	66623325016	66623325057	
50	50	66623378340	66623378349	66623335412	66623334882	
76	25	66623378341	66623378350	66623335415	66623334883	
100	25	66623335419	66623335418	66623325018	66623334884	
115	25				66623378974	66623334944
127	25				66623378975	66623334946
150	25				66623334949	66623341361
178	25				66623378976	66623341362
200	25				66623334953	
MEDIUM						
19	50	66623325020	66623335420	66623325019		
25	50	66623335422	66623335421	66623325021		
38	50	66623335424	66623335423	66623325022	66623325059	
50	50	66623378342	66623378351	66623335425	66623334958	
76	25	66623378343	66623378352	66623335428	66623334956	
100	25	66623335432	66623335431	66623325023	66623334959	
115	25				66623378977	66623333612
127	25				66623378978	66623334963
150	25				66623334964	66623341363
178	25				66623378979	66623341364
200	25				66623334966	
FINE						
19	50	66623325026	66623325025	66623325024		
25	50	66623325029	66623325028	66623325027		
38	50	66623325032	66623325031	66623325030	66623325058	
50	50	66623378345	66623325034	66623325033	66623333604	
76	25	66623378346	66623325037	66623325036	66623333605	
100	25	66623325041	66623325040	66623325039	66623333606	
115	25				66623333607	66623333608
127	25				66623333609	66623334954
150	25				66623333610	66623341365
178	25				66623334955	66623341366
200	25				66623333611	
EXTRA FINE						
19	50	66623325044	66623325043	66623325042		
25	50	66623325047	66623325046	66623325045		
38	50	66623325050	66623325049	66623325048	66623325060	
50	50	66623378347	66623378353	66623325051	66623333613	
76	25	66623378348	66623378354	66623325053	66623333614	
100	25	66623325056	66623325055	66623325054	66623334967	
115	25				66623378980	66623333616
127	25				66623378981	66623333618
150	25				66623334968	66623341367
178	25				66623334969	66623341368
200	25				66623333619	

KEY:
MTS (EU Stock)
 MTO (Lead time 6 weeks)



ORDERING INFORMATION

DIA mm	QTY	TR	TS	TP	Hook & Loop (NORGRIP) Plain Disc	Disc with 22mm hole
EXTRA COARSE						
19	50	66623340002	66621022401	66623340000		
25	50	66623340007	66623340006	66623340004		
38	50	66623340011	66623340010	66623340008	66623340098	
50	50	66623378355	66261017819	66623340012	66261017900	
76	25	66623378356	66261017818	66623340015	66623326059	
100	25	66261016374	66623310706	66623340018	66261017382	
115	25				66623378983	66623378993
127	25				66623378982	66623378994
150	25				66623326077	66623326076
178	25				66623378965	66623326085
200	25				66261017531	
COARSE						
19	50	66623340021	66261095015	66623340020		
25	50	66623378357	66261024310	66623340022		
38	50	66623378358	66623340026	66623340024	66623340099	
50	50	66623378359	66623378374	66254498593	66261004431	
76	25	66623378360	66623378375	66254498596	66261055015	
100	25	66261008822	66261055349	66623340030	66261055018	
115	25				66623378984	66623378995
127	25				66623378985	66623378996
150	25				66261006910	66623325136
178	25				66623378986	66623325138
200	25				66261006913	
MEDIUM						
19	50	66623340032	66254428059	66623340031		
25	50	66623378361	66254482327	66623340033		
38	50	66623378362	66254482328	66623340034	66623338571	
50	50	66623378363	66623378376	66254498520	66261004441	
76	25	66623378364	66623378377	66254498595	66261004442	
100	25	66261008821	66261055350	66623340039	66261055019	
115	25				66623378987	66623378997
127	25				66623378988	66623378999
150	25				66261006911	66623325918
178	25				66623378989	66623325919
200	25				66261017815	
FINE						
19	50	66623340058	66623340056	66623340054		
25	50	66623340064	66623340062	66623340060		
38	50	66623340070	66623340068	66623340066	66623340101	
50	50	66623378366	66623340074	66623340072	66623325143	
76	25	66623378382	66623340082	66623340080	66623325143	
100	25	66623340092	66623340090	66623340088	66623325145	
115	25				66623378990	66623325153
127	25				66623378991	66254469132
150	25				66623325160	66623325159
178	25				66261199465	66623325897
200	25				66623325907	
EXTRA FINE						
19	50	66623340044	66623340042	66623340041		
25	50	66623378380	66254482335	66623340045		
38	50	66623378371	66254482336	66623340046	66623340100	
50	50	66623378372	66623378378	66254498594	66623325926	
76	25	66623378373	66623378379	66254498597	66623325934	
100	25	66623340053	66623340052	66623340051	66261055020	
115	25				66623379028	66623325938
127	25				66623379029	66623325943
150	25				66261055026	66623325958
178	25				66261019990	66623325959
200	25				66623325972	

KEY:
MTS (EU Stock)
 MTO (Lead time 6 weeks)

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		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



Use this QR code to view a product demonstration video or visit www.saint-gobain-abrasives.com

www.norton.eu

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Form # 2364

