

TECHNICAL DATA SHEET (TDS)

Product Name: Kornesh Abrasives Grip 80P

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Product Category: Coarse Industrial Abrasives

1. PRODUCT OVERVIEW

Kornesh Abrasives Grip 80P is a high-performance, heavy-duty 80-grit abrasive system designed for rapid material removal, aggressive surface preparation, and leveling. Engineered with high-purity synthetic grains and a tear-resistant backing, it offers superior cutting efficiency and long service life across various industrial applications.

2. TECHNICAL SPECIFICATIONS

Parameter	Specification / Value
Grit Designation	P80 (Coarse / FEPA standard compliant)
Abrasive Grain	Premium Synthetic Aluminum Oxide
Bonding Agent	Dual Synthetic Resin (Resin-over-Resin)
Backing Material	Reinforced Heavy-Duty Paper / Hook & Loop / Cloth
Coating Type	Semi-Open Coat with Anti-Loading Layer
Color	Industrial Brown / Dark Red
Operating Mode	Dry Sanding (Manual & Machine)

3. KEY PERFORMANCE FEATURES

- Aggressive Cutting Action:** High-density 80-grit formulation ensures high stock removal rates, minimizing total preparation time.
- Anti-Clogging Layer:** Treated surface reduces dust accumulation and resin buildup when

sanding soft resinous woods or painted substrates.

- **Tear Resistance:** Flexible yet rugged backing maintains structural integrity under high mechanical stress and high-speed orbital applications.
- **Consistent Scratch Pattern:** Precise grain size distribution ensures uniform surface profiling, creating optimal adhesion anchors for primers, paints, or secondary sanding passes.

4. RECOMMENDED APPLICATIONS

Primary Industries

- **Woodworking & Joinery:** Rapid removal of machine marks, initial sanding of rough-cut timber, and edge profiling.
- **Metalworking & Fabrication:** Removal of mill scale, weld seam blending, heavy oxidation/rust removal, and paint stripping.
- **Construction & Masonry:** Smoothing rough plaster edge transitions, clearing formwork residue, and surface preparation before coating.
- **Automotive Refinishing:** Stripping old clear coats, shaping filler, and smoothing metal substrates.

5. OPERATING CONDITIONS & RECOMMENDATIONS

Operating Parameter	Recommendation
Recommended Speed (Orbital)	8,000 – 12,000 RPM (Adjust according to substrate hardness)
Applied Pressure	Moderate (Allow the abrasive grains to cut freely; avoid excessive pressure)
Equipment Compatibility	Random orbital sanders, belt sanders, hand blocks, and sheet sanders
Dust Extraction	Vacuum-assisted dust extraction recommended for maximum tool life

6. STORAGE & HANDLING

To ensure optimal product shelf life and performance, adhere to the following conditions:

- **Temperature:** Store between 18°C and

22°C (64°F to 72°F).

- **Relative Humidity:** Maintain room humidity levels between 45% and 65%.
- **Storage Advice:** Keep products in original packaging away from direct exposure to sunlight, damp walls, or concrete floors. Allow abrasive discs/sheets to acclimate to workshop conditions prior to use.

7. SAFETY INFORMATION & PPE

Always adhere to standard industrial safety regulations during operation:

- **Eye Protection:** Wear safety goggles or face shields conforming to standard safety regulations.
- **Respiratory Protection:** Use suitable dust masks or particulate respirators (P2/P3 level recommended).
- **Hearing Protection:** Ear defenders or earplugs are required during high-RPM power tool usage.
- **Hand Protection:** Wear heavy-duty work gloves to protect against sharp material edges and thermal buildup.

Disclaimer: The technical data provided herein represents typical product attributes tested under standardized laboratory conditions. Users should test Kornesh Abrasives Grip 80P under actual application conditions to determine suitability for specific end-use requirements.