

# Application Guidelines Manual

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## 1. Introduction

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This manual provides best-practice guidance for selecting and applying Sanhui's industrial abrasives in a range of surface preparation, polishing, and finishing operations.

## 2. General Safety Recommendations

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- Always wear appropriate PPE: safety goggles, dust masks, gloves.
- Ensure work areas are well-ventilated to reduce airborne particulate exposure.
- Refer to SDS before using any abrasive material.

## 3. Grinding & Lapping

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**Recommended Abrasives:** Black SiC, Green SiC, White Fused Alumina

- Coarse grits (F16–F60): Heavy stock removal
- Medium grits (F80–F180): Shaping and leveling
- Fine grits (F220–F800): Surface finishing

## 4. Blasting Applications

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**Recommended Abrasives:** Brown Fused Alumina, Black Silicon Carbide

- Use angular grains for roughening surfaces before coating.
- Control blasting pressure to prevent over-etching softer metals.

## 5. Polishing Applications

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**Recommended Abrasives:** Calcined Alumina, White Fused Alumina (F800+)

- Apply with polishing cloth or pads.
- Keep surface wet to reduce heat and dust generation.

## 6. Grit Selection Reference Table

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Grit Size	Recommended Application	Abrasive Type
F16 – F36	Heavy cutting, descaling	Brown Fused Alumina
F46 – F80	Blasting and aggressive deburring	Black Silicon Carbide
F100 – F180	General-purpose grinding and shaping	White Fused Alumina
F220 – F800	Fine lapping and surface finishing	Green SiC / White Fused Alumina
F1000 – F2000	Precision polishing and micro-finishing	Calcined Alumina

## 7. Application Case Study

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**Case:** Surface Preparation of Automotive Chassis Parts

**Client:** Tier-1 automotive supplier

**Objective:** Improve paint adhesion and reduce coating defects

**Solution:** Implemented brown fused alumina (F60) with controlled blasting pattern

- Adhesion strength improved by 21%
- Coating defect rate reduced from 6.3% to 2.1%
- Productivity increased by 12% due to reduced rework

## 8. Contact Technical Support

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For personalized assistance or to request application-specific abrasive recommendations, contact:

**Email:** [info@sanhuiabrasives.com](mailto:info@sanhuiabrasives.com) | **Website:** [www.sanhuiabrasives.com](http://www.sanhuiabrasives.com)