

## SAFETY WARNINGS AND INSTRUCTIONS FOR 3-IN-1 DIAMOND GRINDING WHEELS

**USE WITH EXTREME CAUTION:** All users must read, comprehend and comply with all warnings and operating instructions found on this safety sheet along with safety information provided with any tool used in conjunction with the wheel. Always comply with safety requirements for the use, care and protection of abrasive wheels described in ANSI safety guide B7.1 and by OSHA safety rules. Improper use may cause wheel damage and serious bodily harm to users or bystanders.

**WARNING:** Always comply with ANSI Z87.1 and OSHA safety rules regarding wearing approved protective gear when using the wheel. This includes proper safety glasses and full-face shields, as well as protective gloves and clothing. Bystanders within 50 feet should also wear approved protective gear while the wheel is in use.

**WARNING:** Never use on grinders, air tools, drills or other power tools and equipment without safety guards. Keep guards in place when using the wheel and never use the wheel if it is damaged or suspected to be damaged. Observe all speed restrictions while using the wheel including the standard maximum speed provided by the manufacturer. Follow instructions when attaching to arbors or adapters. Use common practices and safety practices when tightening adapters or arbors. Test the wheel in a safe area before using it. Never assume the wheel is properly tightened. Recheck torque on wheel arbor and or adapter before every use.



### BEFORE EACH USE:

- Make sure air or power tool is disconnected from power source.
- Always inspect all threads, surfaces, shafts, adapters and screws for debris or metal burrs.
- Be sure to tighten any chucks, drills, arbor nuts, etc. firmly to manufacturer specifications. A poorly connected arbor or adapter may lead to a wobble, which at high speeds, can cause the adapter to dislodge from the wheel, the wheel to dislodge from the air/power tool or the wheel to become uncontrollable resulting in damage to property or serious injury.
- Always test wheel at slow speeds. Visually inspect for any abnormalities such as vibration, which could be a symptom of poor attachment at the arbor or shaft, a defective air/power tool or a bent/deformed wheel.
- Periodically inspect wheel, core, arbors, adapters and grinding equipment for any defects, such as cracks or deformities due to misuse or abuse.
- DO NOT DROP! If dropped, wheel could become deformed. Follow all safety instructions provided to check for any damage to wheel body or grinding surfaces.
- If any defects are detected or suspected, DO NOT USE wheel or defective grinding equipment.

## INSTRUCTIONS FOR THE 2" 3-IN-1 DIAMOND GRINDING WHEEL

The 2" 3-in-1 Diamond Grinding Wheel may be attached directly to an air tool with a drill or collet-type chuck via the 1/4" shaft. Make sure all mating surfaces are smooth and free of debris or metal burrs.

Insert shaft of wheel into air/power tool chuck or collet per tool manufacturer's instructions and tighten to specifications. Be sure to NEVER hold adapter or tool shaft from tapered surface and always grip shaft securely. Use generally accepted safety practices at all times.

## INSTRUCTIONS FOR THE 3" 3-IN-1 DIAMOND GRINDING WHEEL

The 3" 3-in-1 Diamond Grinding Wheel may be used with the supplied arbor adapter (adapts wheel from 3/8" to 1/4" OD) or attached directly to an air tool with a 3/8" arbor. When using supplied adapter, make sure all mating surfaces are smooth and free of debris or metal burrs; inspect adapter, screw and washer to be sure threads and shoulder are clean.

Insert adapter into backside of wheel until seated flush inside center of wheel. Slide external tooth lock washer (sharp edge facing wheel) over shaft of screw then insert screw through center of grinding wheel from recessed side and turn screw clockwise until snug using a 5mm Allen Key.

Using a 3/8" wrench, hold flats on shaft of adapter securely, then tighten screw until tight and external tooth lock washer is fully seated. Install grinding wheel into air tool or drill.

When inserting adapter shaft into a collet or chuck, be sure NOT to grab adapter on tapered shoulder. Only grab adapter on smooth, straight shaft which has an OD of 1/4". Follow instructions provided by air/power tool manufacturer to ensure you are using tool's chuck or collet properly.

Before use, spin at slow RPM to check for wobble, then slowly increase while observing any wobble or deflection in rotation. Check to make sure wheel is spinning true. If any wobble is detected at any speed, immediately stop rotating and disassemble adapter or check collet/chuck engagement. Repeat adapter installation steps and recheck for wobble. If wobble is still detected, DO NOT use wheel. Check air/power tool for any defects. If no defects can be found, contact your distributor.

