

## Sealey WEHF5032

# Sealey WEHF5032 Hardfacing Welding Electrode User Manual

Brand: Sealey | Model: WEHF5032

## INTRODUCTION

This manual provides essential information for the safe and effective use of Sealey WEHF5032 Hardfacing Welding Electrodes. Please read this manual thoroughly before use and retain it for future reference. Proper understanding and adherence to these instructions will ensure optimal performance and user safety.

## SAFETY INFORMATION

**WARNING: Welding can be hazardous. Protect yourself and others. Read and understand this safety information before operating.**

- **Electric Shock Can Kill:** Do not touch live electrical parts. Wear dry welding gloves and protective clothing. Ensure your work area is dry.
- **Fumes and Gases Can Be Dangerous:** Keep your head out of the fumes. Use ventilation or exhaust to remove fumes from the breathing zone.
- **Arc Rays Can Burn Eyes and Skin:** Wear a welding helmet with a proper shade filter. Wear protective clothing to cover all exposed skin.
- **Fire and Explosion Hazard:** Remove all flammable materials from the welding area. Have a fire extinguisher readily available.
- **Hot Parts Can Cause Severe Burns:** Allow welded materials to cool before handling. Use insulated gloves and tongs.
- **Noise Can Damage Hearing:** Wear ear protection if noise levels are high.
- **Always use appropriate personal protective equipment (PPE)** including welding helmet, gloves, protective clothing, and safety footwear.

## PRODUCT DESCRIPTION

The Sealey WEHF5032 Hardfacing Welding Electrodes are designed for applications requiring resistance to wear from minerals, medium shocks, and compression. These electrodes provide excellent corrosion protection and are ideal for building up surfaces on components such as blades, spades, and shovel buckets used in agricultural and construction

machinery.

These electrodes are versatile and can be used with both AC (Alternating Current) and DC (Direct Current) welding power sources. The specific variant, Ø3.2mm, is recommended for use with a welding current of 130 Amperes.



This image displays the Sealey WEHF5032 Hardfacing Welding Electrodes. The electrodes are gray rods, approximately 3.2mm in diameter and 350mm long, bundled together and partially stored within a bright yellow rectangular plastic case. The case has a label on top indicating 'SEALEY', 'Ø3.2 X 350MM HARDFACING WELDING ELECTRODES 5KG PACK', and 'Model No. WEHF5032'. Some electrodes are shown outside the case, illustrating their length and appearance.

SPECIFICATIONS

Attribute	Value
Model	WEHF5032
Electrode Diameter	3.2 mm

Electrode Length	350 mm
Recommended Welding Current	130 A
Pack Weight	5 kg
Compatibility	AC or DC welding currents
Application	Hardfacing for wear resistance, medium shocks, compression, corrosion protection

## SETUP AND PREPARATION

- 1. Work Area:** Ensure the welding area is clean, well-ventilated, and free from flammable materials.
- 2. Power Source:** Connect your welding machine to a suitable power supply. Verify that the machine is set to the correct current type (AC or DC) and polarity for hardfacing applications.
- 3. Electrode Holder:** Securely insert the WEHF5032 electrode into the electrode holder. Ensure good electrical contact.
- 4. Ground Clamp:** Attach the ground clamp firmly to the workpiece or a clean, bare metal surface connected to the workpiece. A good ground connection is crucial for stable arc.
- 5. Workpiece Preparation:** Clean the surface to be hardfaced thoroughly. Remove any rust, paint, oil, or other contaminants that could affect weld quality. Preheating may be necessary for certain base metals or thick sections; consult welding guidelines for your specific material.
- 6. PPE:** Always wear all required Personal Protective Equipment (PPE) before starting any welding operation.

## OPERATING INSTRUCTIONS

- 1. Current Setting:** Set your welding machine to the recommended current of 130 Amperes for the Ø3.2mm electrode. Adjust slightly as needed based on arc stability and desired penetration.
- 2. Arc Striking:** Strike the arc by either scratching the electrode against the workpiece like a match or by tapping it quickly. Once the arc is established, maintain a consistent arc length.
- 3. Welding Technique:** Maintain a consistent travel speed and electrode angle. For hardfacing, a slight weaving motion or stringer beads can be used depending on the desired coverage and layer thickness. Overlap beads by approximately 30-50% to ensure full coverage.
- 4. Layer Application:** For multi-layer hardfacing, allow each layer to cool sufficiently before applying the next to prevent excessive heat buildup and potential cracking.
- 5. Slag Removal:** After completing a weld pass, allow the weld to cool slightly, then chip off the slag using a chipping hammer and wire brush. Ensure all slag is removed before depositing subsequent layers.
- 6. Post-Weld Cooling:** Allow the hardfaced component to cool slowly in still air to minimize residual stresses.

## MAINTENANCE

- Storage:** Store electrodes in a dry, cool place, preferably in their original sealed packaging or a heated electrode oven, to prevent moisture absorption. Moisture can lead to porosity and poor weld quality.
- Handling:** Handle electrodes carefully to avoid damaging the flux coating.
- Inspection:** Before use, inspect electrodes for any damage to the flux coating or core wire. Discard damaged electrodes.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Unstable Arc / Difficulty Striking Arc	Incorrect current setting, poor ground connection, damp electrodes, improper arc length.	Adjust current, ensure good ground, dry electrodes (if applicable), maintain proper arc length.
Excessive Spatter	Too high current, long arc, incorrect electrode angle.	Reduce current, shorten arc, adjust electrode angle.
Porosity (holes in weld)	Damp electrodes, contaminated workpiece, insufficient shielding from arc.	Dry electrodes, clean workpiece thoroughly, ensure proper arc length and technique.
Poor Slag Removal	Incorrect current, improper travel speed, wrong electrode angle.	Adjust current, optimize travel speed, correct electrode angle.

WHAT'S IN THE BOX


The Sealey WEHF5032 Hardfacing Welding Electrode package contains:

- Sealey WEHF5032 Hardfacing Welding Electrodes (Ø3.2 x 350mm, 5kg Pack)

WARRANTY AND SUPPORT

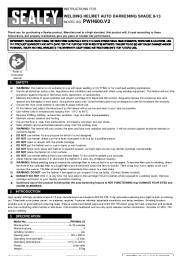
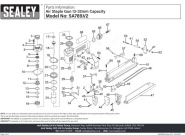



For information regarding warranty coverage, technical support, or service for your Sealey WEHF5032 Hardfacing Welding Electrodes, please refer to the documentation provided with your purchase or contact Sealey directly through their official website or customer service channels. Keep your proof of purchase for any warranty claims. For general inquiries or further assistance, you may visit the official Sealey website:[www.sealey.co.uk](http://www.sealey.co.uk)

Related Documents - WEHF5032



[Sealey SSP101.V2 Welding Head Shield - Shade 10: Instructions and Safety Guide](#)

Official instructions and safety guide for the Sealey SSP101.V2 Welding Head Shield with Shade 10 lens. Learn about assembly, adjustment, maintenance, and safe usage for welding operations.

	<p><a href="#">Sealey PWH600.V2 Auto Darkening Welding Helmet: Instructions &amp; Specifications</a></p> <p>Comprehensive instructions, safety guidelines, specifications, and troubleshooting for the Sealey PWH600.V2 auto darkening welding helmet with shade 9-13. Learn about setup, maintenance, and optimal use for MIG, TIG, and arc welding.</p>
	<p><a href="#">Sealey SA789.V2 Air Staple Gun Parts List</a></p> <p>Detailed parts information and diagram for the Sealey SA789.V2 Air Staple Gun, including part numbers and descriptions for 13-32mm capacity.</p>
	<p><a href="#">Sealey SSP5D Deluxe Gas Welding Goggles: Safety, Use, and Maintenance Instructions</a></p> <p>Comprehensive instructions for the Sealey SSP5D Deluxe Gas Welding Goggles, covering safety precautions, specifications, assembly, proper use, cleaning, maintenance, storage, and environmental protection.</p>
	<p><a href="#">Sealey 180/200AMP MMA Inverter Welders MW180i MW200i User Manual</a></p> <p>Comprehensive user manual for Sealey 180/200AMP MMA Inverter Welders (Model MW180i, MW200i). Covers safety, operation, specifications, maintenance, troubleshooting, and electronic compatibility. Learn how to safely and effectively use your Sealey inverter welder.</p>
	<p><a href="#">Sealey Supermig150.V5 150A Gas/Gasless MIG Welder Instructions</a></p> <p>Comprehensive instructions for the Sealey Supermig150.V5 150A Gas/Gasless MIG Welder, covering safety, operation, assembly, specifications, and troubleshooting.</p>