



501 Exhaust Repair Compound

UNIGRIP 501 is an asbestos-free high-temp resistant one-component cold weld paste / putty. Specifically formulated for repair & sealing of equipment exposed to temperatures up to 2372 °F (1300 °C). Such as repair of cracks and leaks in exhaust pipes, bellow or expansion joints, boilers, and chimneys. And its highly suitable for the assembly and fitting of boiler systems and chimneys as well

Key Benefits

High-temperature resistance – ideal for extreme heat environments

One-component cold weld paste/putty – no mixing required, easy to use

Excellent adhesion and sealing properties – ensures durable, leak-proof repairs

Perfect for assembly and fitting applications in boiler systems and chimney installations

Quick and reliable sealing solution – minimizes downtime and increases operational efficiency

Versatile application – suitable for a wide range of industrial and mechanical environments

Availability

UNIGRIP 501: 10.48 fl.oz. (310ml) Cartridge
Incl: 1 ea. mixing knife, spatula, brush (smooth compound after application), steel mesh (reinforcement), nitrile gloves

Easy to Use

- Step 1: Cut off the tip of the cartridge
- Step 2: Screw on the included nozzle securely.
- The exhaust repair compound is now ready for use.

All relevant info available at:
www.dantech-group.com



Technical Data Sheet

501 Unigrip Exhaust Repair Compound

UNIGRIP
DANTECH ELITE COMPOSITES

Description:

Asbestos-free high-temp resistant one-component cold weld paste / putty. Specifically formulated for repair & sealing of equipment exposed to temperatures up to 2372 °F (1300 °C). Such as repair of cracks and leaks in exhaust pipes, bellow or expansion joints, boilers, and chimneys. And its highly suitable for the assembly and fitting of boiler systems and chimneys as well

Intended Use:

Repairing cracks, leaks, and surface damage in exhaust systems, bellows, expansion joints, boilers, and chimneys. It is also highly effective in the assembly and fitting of boiler systems and chimney installations, where a durable and heat-resistant seal is critical.

Technical Data

- Easy to work with
- Asbestos-free
- Non-shrinking
- Seals well
- Adheres well to metal and other materials
- Non-crumbling
- Pasty, does not run
- Base of alkaline silicates and water glass
- Temperature resistance: +1300°C after
- Density approx. 0.33 lbs/ft²(1.6 kg/m³)
- Working temperature: +5°C - +40°C
- Curing time: 24 hours (Possible to carefully heat up for quicker curing, must be kept below boiling point until fully cured)

Overpainting:

It is not recommended to overpaint the Unigrip exhaust repair compound, as the product is used in areas with high temperatures. Therefore posing risk of discoloration and the release of fumes from the paint.

Adhesion:

The sealant adheres to all common materials in exhaust systems and furnaces such as metal, concrete, masonry, firebrick, refractory linings, fiberglass gaskets, etc.

Packaging:

- Unigrip Exhaust Repair Kit is supplied in a box, including:
- 1 ea. exhaust repair compound in a 10.48 fl. Oz. (310ml) standard single cartridge incl nozzle.
- 1 ea. Application tools (putty knife + spatula)
- 1 ea. Reinforcement steel mesh
- 1 ea. Set of nitrile gloves
- 1 ea. Instructions for use

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Shelf Life:

Unigrip Exhaust Repair compound should be stored out of direct sunlight in dry frost free conditions of temperatures between +5°C to +30°C. the cartridge can be stored for 2 years in its original sealed container.

Disclaimer:

The information and recommendations provided in this product data sheet are based on our internal research and practical experience. However, they do not constitute guaranteed product properties and are not legally binding. As we are not aware of the specific conditions under which the product will be used, we cannot assume responsibility for application results or compliance with processing requirements.

We can only guarantee the consistent high quality of our products. Therefore, we strongly recommend that users perform their own tests to ensure the product meets their specific requirements. Any claims arising from such applications are excluded. The user assumes full responsibility for improper use or application of the product.

Safety and Health

For additional health and safety information, consult the Safety Data Sheet.

UNIGRIP

Instructions For Use

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Instructions For Use

1. Metal surfaces must be degreased and any remaining paint, rust and oxides must be removed by mechanical prep tool such as Unigrip 951 rotating blaster, or other suitable mechanical prep tool, or sandpaper grid 40-60.
2. Non-metallic bonding surfaces must be clean, dry and free from grease, oil, dust and other release agents. Thorough cleaning with Unigrip 951 rotating blaster, or other mechanical prep. tool, or sandpaper grid 40-60.
3. Degreasing using Unigrip 903 Super Bio cleaner (Cleaner/Degreaser) or any other effective cleaner which does not leave a residue e.g., methyl ethyl ketone (MEK) . (On highly absorbent surfaces, spray a fine mist of water immediately before bonding).
4. Cut and fit the reinforcement wire mesh to the area of the repair.
5. Wear the provided nitrile gloves before beginning the application.
6. Shake well before use (as a small amount of water may be released when cutting the tip or dispensing the initial portion of the compound, it is recommended to dispense the first small amount onto a mixing pad and mix thoroughly using the mixing knife included")
7. Apply (with the provided spatula) a suitable amount/layer of Exhaust Repair Compound in and around the leak or crack
8. Fit the reinforcement wire mesh to the area of the repair. (If necessary, use a steel band or steel wire to keep the mesh in place)
9. Apply a second layer of the exhaust repair compound and leave for initial curing 24 hours
10. Or heat up slowly/carefully the applied compound to 203°F Max (95°C Max) for a couple of minutes and leave for curing for 6-8 hours.
11. For a smooth appearance, add just a little water to the tip of a paint brush, tip of your gloved finger or similar, then smoothen gently until satisfactory appearance.
12. When cured the exhaust repair compound will harden like metal. After 24 hours the material will be cured sufficiently to allow a repaired system to be put back into service. (OR apply heat: follow step in bullet point # 9.)

Example of Repair:

Example: when repairing holes in exhaust pipes, apply a 1–3 mm thick layer of Unigrip Exhaust Repair compound around the hole/crack. Cut a reinforced steel plate and press into good contact with Unigrip Exhaust Repair compound. Apply another layer of Unigrip Exhaust Repair compound and smooth the surface with a spatula or similar. The repair must dry for at least 24 hours before loading. The first time the exhaust pipe is heated, a slight odor will occur.

Technical

Remove all excess sealant next to the joint and on the equipment with water and before it hardens. Remove hardened sealant mechanically. Wipe unhardened sealant off the skin with a cloth and then wash with soap and water.

Important Note:

- Temperature resistance: +1300°C after complete curing
- Working temperature: +5°C - +40°C

Health and Safety

For additional health and safety information, consult the Safety Data Sheet.