



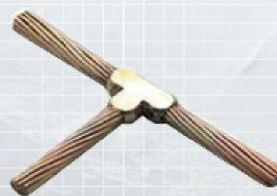
SCHIRTEC®



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# SCHIRTEC Thermo Welding Products



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## Product Packaging

SCHIRTEC Exothermic Welding Powder is available in cartridge with following content:

65 g  
90 g  
115 g  
150 g  
200 g  
250 g

## Advantages of Exothermic Welding Connections



No need for external heat source  
Material can be permanently joined within seconds



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Easy handling with ready moulds (dimensions 7cm x 7cm x 15cm or 7 cm x 7 cm x 20 cm)  
Exothermic Welding has an excellent corrosion resistance  
Exothermic Welding does not suffer from increased electrical resistance over the lifetime of the installation

## How does Exothermic Welding works?

1. Make sure that the mould is dry and clean and position the conductors properly. Than close the mould with the handle clamp.
2. Place the small metal disc on the bottom of the mould.
3. Pour the powder from the cartridge into the crucible.
4. Open the bottom of the cartridge (red cap) and pour the starting powder on the top.
5. Close the mould cap and ignite the starting powder with a spark gun. The exothermic reaction converts the weld powder into molten copper alloy.
6. The molten copper alloy melts the retaining disc and flows into the weld cavity where it melts and connects the conductors. The process happens inside the mould.
7. After the molten copper alloy cools down the conductors are connected.



## To Note:

- It is very important to clean the inside of the mould after every use. Therefore you can use a special cleaning brush.
- For each connection or joint one powder cartridge is required.
- A single mould can be used approx. 75 times
- When joining conductors smaller than 16 mm<sup>2</sup>, special sleeves are required

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## Types Of Connections:

- Bar to bar
- Bar to earth rod
- Bar to steel surface
- Cable to bar
- Cable to cable
- Cable to earth rod
- Cable to reinforcing bar
- Cable to steel surface and pipe
- Cable to rail
- Bar to rail
- Stud to rail
- Stud to steel surface