

PRODUCT DATA SHEET

Zincfix

New Improved
Formula



INTENDED USES: *Zincfix*[®] is an organic bound zinc rich coating containing >80% metal. It is applied to clean steel and hot dip galvanized surfaces to form an adherent anti-corrosive layer in excess of 100 microns thick. *Zincfix*[®] combines the convenience of squish pack technology with the chemistry of modern solvent free epoxies.

Packaging: The product is supplied in a sealed, 2 compartment, reinforced plastic pouch. It is easy and clean to mix and use, it ensures exact mixing and 100% reproducibility. The mixing process takes place within the sealed container, thus the user is not exposed to the contents until the pack is cut open ready for use.

PRODUCT DESCRIPTION: Two component, solvent free, zinc rich, epoxy repair coating for galvanizing

PRODUCT BACKGROUND:

- When suitably cleaned steel is dipped in molten zinc at 450°C a coating comprising a series of iron/zinc alloy layers, over-coated with relatively pure zinc, is formed. The hot dip galvanized coating provides a barrier against corrosion but additionally, provides sacrificial protection when the coating is site cut, welded or mechanically damaged. In order to prevent this sacrificial protection property prematurely consuming the surrounding coating, repair of the damaged coating using *Zincfix*[®] is recommended.

PRODUCT FEATURES:

- The mixing of small packs reduces waste and the product is visible at all times.
- Although the medium grey metallic colour of *Zincfix*[®] will stand out on the bright shiny surface of newly exposed zinc, it will blend into a very similar finish once the stable matt grey zinc carbonate film has formed.
- *Zincfix*[®] is resistant to white rust as the metal is bound by the epoxy binder. The product is resistant to 1000 hours humidity and 1000 hours salt spray resistance at a thickness of 400 micrometers, with very little whitening.
- *Zincfix*[®] is an excellent anti corrosive primer for steel and is ideal for rust prevention and repair of corroded steel. It can be applied as a single coat and can be over-coated with any kind of conventional painting system.
- *Zincfix*[®] can be used as a repair and build-up material for minor automotive coating repairs e.g. – scratches and stone chips and small dents. Being very dense, the product exhibits very low shrinkage and is more adherent than conventional polyester body fillers. It can also be used to imbed fibreglass tissue for rust perforation repairs.

Standard Colour Availability: Metallic Grey

PRODUCT INFORMATION:

- Volume Solids 100%
- % Zinc in dry film >80%
- Film Thickness (Typical)
 - Wet 100µm
 - Dry 100µm
- Theoretical Spreading Rate 10 m² per litre at stated volume solids* at a DFT of 100µm
- Theoretical Spreading Rate 0.270 m² per 100 gram squish pack at a DFT of 100µm
- Temperature resistance Continuous dry temperature 120°C
- Number of components 2 component 'squish pack'
- Pot life 30 minutes at 25°C at 65% RH
- Density 3.6 +/- 0.1 kg per litre
- Shelf Life Use before 6 months from production date

MIXING

Number of Components

Supplied as a 100gram, 2-compartment pouch with the individual components separated by removable seals

Mixing

The product is mixed by removal of the seal and rubbing and squashing the components together inside the pouch. The contents will start to heat up after 10 (ten) minutes (exothermic reaction) and must be used within 25 (twenty five) minutes of mixing.

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Method of mixing & application:

- **FIRSTLY:** When the squish pack is required for use, remove the seal between the Zinc base and the clear curing agent. (Pull rubber cord from plastic channel) and squeeze the contents of the clear bag to the other to mix the two components.
- **SECONDLY:** Crumple the bag and squash the components to mix thoroughly for 5 (five) minutes. It is recommended that the squish pack be placed on a flat surface and "ironed" backwards and forwards using the flat surface of the channel from the temporary seal. Ensure that all the material is squeezed out of the corners into the centre of the packet and thoroughly mixed in with the contents.
- **TO APPLY:** Cut the corner off the mixed packet and squeeze sufficient material out to coat the area to be prepared. Spread the material with a stiff bristle brush or a plastic (polypropylene) applicator. The contents of the packet are sufficient to coat approximately 0.27 m² at a dry film thickness of 100µm.
- **DO NOT:** attempt to use the product after the pot-life has been exceeded. This product is designed for a 30 (thirty) minute pot-life at 25°C. The pot life will be shorter at higher temperatures and longer at lower temperatures. Wetting of the substrate is important for adhesion. When the product is too thick (at the end of its pot-life) it is recommended to discard the material and mix a new packet.
- **DRYING:** The product will harden within 2 (two) hours and will be usable or can be over-coated within 6 (six) hours.

Thinning

the material is supplied at a brushing viscosity. Thinners must **NOT** be used with this product

Cleaner

Speccoats SA 65 Thinners may be used

APPLICATION ENVIRONMENT

	Surface Temperature	Ambient Temperature	Relative Humidity
Min:	10°C*	8°C	40%
Max:	45°C	45°C	95%
*Or 3° above the dew point			

DRYING TIME

Touch dry	Over-coating interval		Dry to handle	Full Cure
2 hours at 25°C for 75µm at 65% RH	Minimum	Maximum	6 hours at 25°C at 65% RH	7 days
	6 hours at 25°C at 65% RH	48 hours		

STORAGE AND HANDLING

Storage Store at temperatures between 5°C and 40°C, away from direct sun, open flames or sparks
Flash Point Not applicable

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HEALTH AND SAFETY:

- Avoid contact with the skin by using gloves, barrier creams and facemask.
- If the product comes into contact with the skin, wash immediately with lukewarm water and soap: if the eyes are affected flush with water of diluted boric acid solution and seek medical attention at once.

PACKAGING: Supplied in cartons of 20 units. Each unit consists of a 100 gram, two-compartment pouch with the components separated by removable seals Each unit is protected by an outer metallized foil pouch.

SURFACE PREPARATION

Degrease steel surfaces with **Speccoats Hydrosolve** followed by a high-pressure water rinse.

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|---------------|-----------|---|
| Method | a) | Hot dip galvanized surfaces (repair of defects) – surfaces must be abraded for a minimum distance (radius) of 25mm from the defect using 220# waterproof emery paper (or finer) and water as a lubricant. The defect should be exposed to bare metal but the size should be kept as small as possible. Immediately after abrasion wipe the surface clean and apply the premixed repair material on a dry surface WITHIN the abraded area. Do not overlap the ‘patch’ onto un-abraded galvanizing. |
| | b) | Steel Surfaces – surfaces to be coated should be abraded to clean, bright metal, free of oils and any other contaminants. Optimum performance is obtained by application to abrasive blast cleaned surfaces prepared to minimum Sa2½ in accordance with ISO 8501-1 |

LIMITATIONS

- The product will chalk on prolonged exterior exposure
- The product will not cure below a temperature of 8°C

SAFETY

- Refer to the Material Safety Data Sheet (MSDS)

Disclaimer:

Whilst we endeavour to ensure that all advice we give about the product is correct, the information given in this data sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so entirely at his own risk. As conditions of use, method of application and suitability of the substrate prior to painting are beyond our control, no guarantee is implied by the recommendations contained herein. We therefore do not accept any liability whatsoever or howsoever arising from the performance of this product or for any loss or damage arising out of the use of this product. The information contained in this sheet is liable to modification from time to time in the light of experience and ongoing product development programmes. It is the users responsibility to ensure that this sheet is current prior to using the product.

Issue Date: 14.03.06 Rev 6

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