

## The Wearcon Promise

To extend production time ensuring significant savings on equipment and labour by supplying innovative solutions, premium products and quality workmanship.

## Improving your bottom line

Capital equipment repairs done at 40% of replacement cost.

Wearcon protected products last up to 10 times longer than non ceramic linings.

Wearcon linings become part of the product increasing resistance to wear from foreign particles.

In many instances our service team are able to repair your equipment on-site, the rest can be done at our factory.

## Wearcon Products

- **Wearcoat TP**, a pipe and pulley lining.
- **Wearcoat AD**, a high impact lining for launders, chutes etc.
- **Wearcoat TW**, a high wear conveyor pulley lining.
- **Wearcoat FC**, a fast cure lining (40 min)
- **Wearcoat FP**, a flameproof lining for underground applications.
- **Wearcoat AC**, an anti corrosion and acid resistant coating.
- **Wearback**, crusher backing compound
- **Wearback HI**, a high impact crusher backing compound.
- **Wearcon Locking Compound**, locking of inner eccentric bushes.
- **Wearcon Steel putty**, machine able metal repair putty.
- **Wearcon Tile adhesive**, Epoxy tile adhesive.
- **Wearcon SS**, a high strength tile adhesive.
- **Wearpox DF**, Deep flow machine grout etc
- **Wearpox FC**, fast cure machine grout.

Wearcon are the developers and manufactures of new innovative wear resistant products specifically designed to offer the maximum abrasion protection.

These modified epoxy resin linings containing sapphire hard alumina ceramic beads provide an abrasion resistant surface designed to withstand the industrial and mining industry requirements to control wear in chutes, conveyor pulleys, pipes, pump casings, valve bodies, slurry lines, launders etc.

Wearcon is the obvious choice for all your wear problems because we have developed our own unique brand of products. Our own manufacturing facilities. 4 dedicated teams consisting of 5 highly skilled applicators that are able to apply our products on site or at our factory.

## Wearcon Applications

Agitator blades	Bucket Elevators	Coal Feeders	Cyclones	Chutes
Launders	Ducting fans	Distribution tanks	Fan casings	Feeder boxes
Flotation cells	Hoppers	Impellers	Pipes and pipe bends	Pump casings
Pulleys	Slurry lines	Vibrating screens	Valve bodies	

# Wearcoat "TP" Wear Protection - Trowable Wearing Compound

## Description

WEARCOAT "TP" is a 100% solids modified epoxy resin system containing sapphire hard alumina ceramic beads to withstand severe cavitation, tough abrasion and moderate impact.

## Application

WEARCOAT "TP" is applied to the prepared surface with a trowel or by hand at the required thickness, from 3mm upwards, depending upon the application.

## Surface preparation.

A properly prepared surface is important to the end result and lasting durability of WEARCOAT "TP". Steel surfaces should be dry grit blasted to SA 2.5 with blast profile between 50-70 microns to leave the surface free of oil and grease contamination. In cold conditions it is recommended to warm the substrate to 30-35°C

## Specifications

Compressive strength	95.5 Mpa
Flexural Strength	52 Mpa
Impact strength	25 Jm
Specific gravity	1.97
Working time	30 min at 25 °C
Gel time	45 min at 25 °C
Curing time	4 Hrs at 25 °C
Heat deflection	250 – 300 °C

## Acid resistance at room temp

Caustic soda	50%
Sulphuric Acid	60%
Phosphoric Acid	10%
Sodium hydroxide	50%
Hydrochloric Acid	20%

## Theoretical coverage

1 m<sup>2</sup> at 4 mm thickness per 12 kg kit

## Typical application

Lining of pipe bends, slurry lines, pump casing, cyclones, conveyor pulleys, chutes, hoppers, launders and feeder boxes etc.

## Kit Size: 12Kg



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# Wearcoat "FP" Flame Proof Ceramic Lining

## Description

WEARCOAT "FP" is a flame proof epoxy ceramic resin primarily used for underground applications.

## Application

WEARCOAT "FP" is applied to the prepared surface with a trowel or by hand at the required thickness, from 3mm upwards, depending upon the application.

## Surface preparation

A properly prepared surface is important to the end result and lasting durability of WEARCOAT "FP". Steel surfaces should be dry grit blasted to SA 2.5 with blast profile between 50-70 microns to leave the surface free of oil and grease contamination. In cold conditions it is recommended to warm the substrate to 30-35°C.

## Specifications

Compressive strength	84 Mpa
Tensile strength	20.9 Mpa
Working time	30 Min at 25°C
Gel time	45 Min at 25°C
Curing time	4 – 6 Hrs at 25°C
Heat deflection	250 – 300°C

## Theoretical coverage

1 m<sup>2</sup> at 4 mm thickness per 10 kg kit

## Typical applications

Underground applications.

## Kit Size: 10 Kg



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# Wearcoat "AD" Abrasion Protection – Wearing Compound

## Description

WEARCOAT “AD” is a 100% solids modified epoxy resin system formulated to withstand severe cavitation, tough abrasion and moderate impact.

## Application

WEARCOAT “AD” is applied to the prepared surface with a trowel or by hand at the required thickness, from 3mm upwards, depending upon the application.

## Surface preparation

A properly prepared surface is important to the end result and lasting durability of WEARCOAT “AD”. Steel surfaces should be dry grit blasted to SA 2.5 with blast profile between 50-70 microns to leave the surface free of oil and grease contamination. In cold conditions it is recommended to warm the substrate to 30-35°C

## Specifications

Compressive strength	96 Mpa
Flexural Strength	52 Mpa
Impact strength	25 Jm
Specific gravity	1.97
Working time	30 min at 25°C
Gel time	45 min at 25°C
Curing time	4 Hrs at 25°C
Heat deflection	250 – 300°C

## Acid resistance at room temp

Caustic soda	50%
Sulphuric Acid	60%
Phosphoric Acid	10%
Sodium hydroxide	50%
Hydrochloric Acid	20%

## Theoretical coverage

1 m<sup>2</sup> at 4 mm thickness per 12 kg kit

## Typical application

Lining of pipe bends, slurry lines, pump casing, cyclones, conveyor pulleys, chutes, hoppers, launders and feeder boxes etc.

## Kit Size: 12Kg



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# Wearcoat "TW" Wear Protection – Conveyor Pulleys

## Description

WEARCOAT “TW” is a 100% solids modified epoxy resin system containing sapphire hard alumina ceramic beads.

## Application

WEARCOAT “TW” is applied to the prepared surface with a trowel or by hand at the required thickness, from 3mm upwards, depending upon the application.

## Surface preparation

A properly prepared surface is important to the end result and lasting durability of WEARCOAT “TW”. Steel surfaces should be dry grit blasted to SA 2.5 with blast profile between 50-70 microns to leave the surface free of oil and grease contamination. In cold conditions it is recommended to warm the substrate to 30-35°C.

## Specifications

Compressive strength	95.5 Mpa
Flexural Strength	52 Mpa
Impact strength	25 Jm
Specific gravity	1.97
Working time	30 min at 25 °C
Gel time	45 min at 25 °C
Curing time	4 Hrs at 25 °C
Heat deflection	250 – 300 °C

## Acid resistance at room temp

Caustic soda	50%
Sulphuric Acid	60%
Phosphoric Acid	10%
Sodium hydroxide	50%
Hydrochloric Acid	20%

## Theoretical coverage

0.95m<sup>2</sup> at 6mm thickness per 10kg kit

## Typical application

Lining of Conveyor Pulleys.

## Kit Size: 10 Kg



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# Wearcoat "FC" Fast Cure Wearing Compound

## Description

WEARCOAT "FC" is a 100% solids modified epoxy resin system containing sapphire hard alumina ceramic beads to withstand severe cavitation, tough abrasion and moderate impact.

## Application

WEARCOAT "FC" is applied to the prepared surface with a trowel or by hand at the required thickness, from 3mm upwards, depending upon the application.

## Surface preparation

A properly prepared surface is important to the end result and lasting durability of WEARCOAT "FC". Steel surfaces should be dry grit blasted to SA 2.5 with blast profile between 50-70 microns to leave the surface free of oil and grease contamination. In cold conditions it is recommended to warm the substrate to 30-35°C.

## Specifications

Compressive strength	95.5 Mpa
Flexural Strength	52 Mpa
Impact strength	25 Jm
Specific gravity	1.97
Working time	20 min
Gel time	35 min
Curing time	1 hour
Heat deflection	250 – 300°C

## Acid resistance at room temp

Caustic soda	50%
Sulphuric Acid	60%
Phosphoric Acid	10%
Sodium hydroxide	50%
Hydrochloric Acid	20%

## Theoretical coverage

1 m<sup>2</sup> at 4 mm thickness per 12 kg kit

## Typical application

Lining of pipe bends, slurry lines, pump casing, cyclones, conveyor pulleys, chutes, hoppers, launders and feeder boxes etc.

## Kit Size: 12 Kg



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# Wearcon Steel Repair Putty

## Description

Wearcon Steel Putty is a steel reinforced epoxy putty, used for permanent repairs on steel, glass ceramics and more. Bonds like epoxy, hardens like steel. Designed for serious repairs, anywhere anytime. Wearcon Steel Putty can be ready for Drill, tap, machine etc after 2 hours of application.

## Application

Repairing of Pump casings, valves, shafts, mechanical parts etc.

## Surface preparation

A properly prepared surface is important to the end result and lasting durability of Wearcon Steel Putty.

## Specifications

Compressive strength	87 Mpa
Flexural Strength	63 Mpa
Impact strength	28 Jm
Curing time	40 min at 25°C
Heat deflection	250 – 300°C

## Acid resistance at room temp

Caustic soda	50%
Sulphuric Acid	60%
Phosphoric Acid	10%
Sodium hydroxide	50%
Hydrochloric Acid	20%

**Kit Size: 0.5 kg kits**  
**1 kg kits**



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## **Wearback 'Std' – Crusher Backing Material**

### **Description**

WEARBACK “STD” is a 100% solids modified epoxy resin system backing material for easy use in all cone type crushers and grinding mills etc. Cone crushers, primary, gyratory crushers and any other heavy machinery that requires backing material. WEARBACK “STD” is non-flammable and requires no special mixing or melting equipment

### **Mixing**

The resin and the hardener must be thoroughly mixed together before application by using a slow speed drill. Mixing continues until a uniform colour is obtained. With ambient temperature at 25°C a full kit must be poured into place directly after mixing.

### **Application**

WEARBACK “STD” crusher backing material is easy to mix and pour. It is mixed in its own container at room temperature of 10°– 25°C. Providing a 100% backing from the moment of hardening.

### **Specifications**

Compressive strength	100 Mpa
Impact strength	75 Mpa
Tensile Strength	35 Mpa
Working Time	10 Min at 25°C
Gel time	20 Min at 25°C
Curing time	8 Hrs at 25°C
Heat deflection	95°C

**Kit Size : 10 kg kits**  
**20 kg kits**



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# Wearback "HI" - Crusher Backing Material

LARGE CONE CRUSHERS / GYRATORY CRUSHERS

## Description

WEARBACK "HI" is a 100% solids modified epoxy resin system formulated for the use as a superior backing compound for crusher liners. When cured it provides a high compressive strength support for wear liners.

WEARBACK "HI" is supplied in safe and convenient kit form for easy mixing and application

## Preparation

Seal all crevices with putty or other suitable material to prevent backing material from leaking out.

## Mixing

The resin and hardener must be thoroughly mixed together before application by using a slow speed drill. Mixing continues until uniform colour is obtained (3-5 minutes) With ambient temperature at 25°C a full kit must be poured into place within 15 – 20 minutes.

## Specifications

Compressive strength	160 Mpa
Flexural strength	66 – 70 Mpa
Modulus of elasticity	10 – 15 Mpa
Tensile strength	38 – 45 Mpa
Gel time	20 Min at 25°C
Curing time	8 Hours at 25°C
Working Time	10 Min at 25°C
Heat distortion	95°C

## Caution

When using epoxy resin systems, care should be taken to avoid contact with skin, eyes and clothing.

Use gloves and eye protection when handling. Do not inhale vapour. Ensure there is sufficient airflow through the work area.

**KIT SIZE: 10kg and 20kg**



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## Wear and Impact Grid

Wear and Impact Grid Thickness 25 - 30mm



### Applications:

Chutes, Hoppers, Underflow pans ect.

### Advantages:

The impact grid has very high impact and wear resistant properties. These have proven the impact grid performs 7 -10 times longer than similar applications. Easy to install with minimum down time.



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## **Wearpox DF**

### **MACHINE GROUT**

#### **Description**

WEARPOX DF is a 100% solids modified epoxy grout formulated for fast and easy pouring up to 450 mm. Due to the fluid consistency of the product, it flows well under rails, structural columns etc. Withstands high torque loading and vibration. Bonds to steel, concrete and can withstand temperature up to 75°C

#### **Preparation**

For best results provide a pouring area of 40mm or more between the foundation and column or rail

#### **Mixing**

Mix with slow speed drill until uniform colour is obtained. With the ambient temperature at 25°C a full kit must be poured into place as soon as possible after mixing.

#### **Specifications**

Compressive strength	115 Mpa
Impact strength	15 Mpa
Working time	25 Min at 25°C
Gel time	20 - 25Min at 25°C
Time to reach operating strength	24 Hrs at 25°C

#### **Typical application**

Machine basis, structural columns, punch presses, bridge seals, rails, etc

#### **CAUTION**

When using epoxy resin systems, care should be taken to avoid contact with skin, eyes and clothing. Use gloves and eye protection when handling. Do not inhale vapor. Ensure there is sufficient Ventilation Throughout the work area

#### **Kit Size: 10kg and 20kg**



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## Wearpox FC

### Description

WEARPOX FC is a 100% solids epoxy grouting system formulated for fast and easy pouring from 5 mm to 25 mm

### Preparation

Areas to be grouted must be free of rust, grease and other loose material.

### Mixing

The resin and the hardener must be thoroughly mixed together before application by using a slow speed drill.

Mixing continues until a uniform colour is obtained. With ambient temperature at 25°C a full kit must be poured into place directly after mixing.

### Specifications

Compressive strength	100 Mpa
Tensile Strength	19 Mpa
Maximum Operating Temperature	60°C
Gel time	20 – 40 Min
Time to reach operating strength	12 – 24 Hrs at 25°C

### Typical application

Metal anchor bolts to concrete, shim pads air pads, Crushers, grind mills, engines presses etc...

### Caution

When using epoxy resin systems, care should be taken to avoid contact with skin, eyes and clothing. Use gloves and eye protection when handling. Do not inhale vapour ensure there is sufficient ventilation throughout the work area.

### KIT SIZE: 10kg



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