

PRODUCT CATALOGUE

Industrial repair, reinforcement and protective systems

7 PRODUCT SERIES / 82 MODEL-SPECIFIC SOLUTIONS

PORTFOLIO FOCUS

Repair / Rebuild / Protect

Pipelines / Pumps / Vessels

zdschem.com



SOLUTIONS BY SERVICE CONDITION

A focused portfolio for maintenance, repair and asset protection

MR

18 MODELS

ZDS-MetalRebuild

METAL REBUILDING & COLD REPAIR

Industrial compounds for rebuilding, bonding, sealing and restoring metal or composite components.

EXPLORE SERIES

zdschem.com

CW

3 MODELS

ZDS-CompositeWrap

PIPE REINFORCEMENT & FRP REPAIR

Composite resin systems for pipe wrapping, laminating, reinforcement and pultrusion processes.

EXPLORE SERIES

zdschem.com

CA

21 MODELS

ZDS-CeramicArmor

WEAR & EROSION PROTECTION

Ceramic-reinforced repair and protection for abrasion, erosion, impact and corrosive service.

EXPLORE SERIES

zdschem.com

AS

3 MODELS

ZDS-AquaShield

WET-SURFACE & UNDERWATER REPAIR

Repair and protective systems for wet, damp, submerged and marine service conditions.

EXPLORE SERIES

zdschem.com

FG

20 MODELS

ZDS-FluidGlide

HIGH-TEMPERATURE & CHEMICAL SERVICE

Barrier and repair systems for high-temperature fluids, chemical exposure and severe corrosion.

EXPLORE SERIES

zdschem.com

PA

1 MODELS

ZDS-PolyAspartic

OUTDOOR PROTECTIVE TOPCOATS

Clear, weather-resistant protective finishes for exposed industrial and offshore assets.

EXPLORE SERIES

zdschem.com

RE

16 MODELS

ZDS-RubberElast

RUBBER & ELASTOMER REPAIR

Elastomeric repair and bonding for rubber linings, belts, cables and flexible components.

EXPLORE SERIES

zdschem.com

ZDS-MetalRebuild / 18

ZDS-MR1101	Anti-Static GRE Structural Adhe...
ZDS-MR1346	Ultra-Temp Cold-Weld Paste
ZDS-MR5017	Quick-Alloy Repair Compound
ZDS-MR5000	Cast Steel Repair Compound
ZDS-MR5001	Cast Iron Repair Compound
ZDS-MR5002	Steel Repair Compound
ZDS-MR5003	Copper Repair Compound
ZDS-MR5004	Aluminum Repair Compound
ZDS-MR5005	Stainless Steel Repair Compound
ZDS-MR5006	Fiberglass Repair Compound
ZDS-MR5007	Machinable Aluminum Repair Comp...
ZDS-MR1003	Rapid Metal Repair Compound
ZDS-MR1347	Conductive Electrophoretic Repa...
ZDS-MR1006	Pipe Leak Repair Adhesive
ZDS-MR5018	Nano-Ceramic Adhesive
ZDS-MR5019	Multi-Purpose Repair Compound
ZDS-MR1348	Conductive Electrophoretic Adhe...
ZDS-MR5008	Super Metal Repair Compound

ZDS-CeramicArmor / 21

ZDS-CA1188	Heavy-Duty Cavitation Repair Pa...
ZDS-CA1826	Fine-Particle Wear Resistant Co...
ZDS-CA1828	Coarse-Particle Impact Shield
ZDS-CA1189	High-Temperature Carbon-Nano Me...
ZDS-CA1829	Shaft Wear Repair Compound
ZDS-CA1830	Hydraulic Cylinder Repair Compo...
ZDS-CA1831	Machine Guideway Repair Compoun...
ZDS-CA1832	Blue Enamel Repair Compound
ZDS-CA1833	Silicon Carbide Wear-Resistant ...
ZDS-CA1834	Nano-Ceramic Pump Efficiency Co...
ZDS-CA1835	Fine-Particle Wear-Resistant Pr...
ZDS-CA1836	Coarse-Particle Wear-Resistant ...
ZDS-CA1837	Rapid-Cure Fine-Particle Wear P...
ZDS-CA1838	High-Temperature Fine-Particle ...
ZDS-CA1841	High-Temperature Coarse-Particl...
ZDS-CA1842	Rapid-Cure Coarse-Particle Wear...
ZDS-CA1843	Brushable Enamel Wear Protectio...
ZDS-CA1844	Brushable High-Temperature Nano...
ZDS-CA1845	High-Temperature Silicon Carbid...
ZDS-CA1839	Wear-Resistant Ceramic Structur...
ZDS-CA1840	Impact-Resistant Wear Protectio...

ZDS-FluidGlide / 20

ZDS-FG2113	Novolac High-Velocity Barrier C...
ZDS-FG1151	Hydro-Efficiency Flow Topcoat
ZDS-FG4018	Ultimate Acid-Storage Tank Line...
ZDS-FG1157	Titanium Alloy Repair Compound
ZDS-FG2123	High-Temperature Enamel Repair ...
ZDS-FG2114	300°C High-Temperature Enamel R...
ZDS-FG1152	Brushable Enamel Repair Coating
ZDS-FG1153	Glass-Lined Reactor Repair Comp...
ZDS-FG1154	Solvent-Resistant Repair Compou...
ZDS-FG1155	Peel-Resistant Anti-Corrosion R...
ZDS-FG2115	Super High-Temperature Metal Re...
ZDS-FG1156	High-Corrosion-Resistance Ename...
ZDS-FG2124	High-Temperature Repair Compoun...
ZDS-FG2116	High-Temperature Sealing Compou...
ZDS-FG2117	Flexible High-Temperature Seala...
ZDS-FG2118	High-Temperature Flue Anti-Corr...
ZDS-FG2119	High-Temperature Nano-Ceramic A...
ZDS-FG2120	High-Temperature Inorganic Stru...
ZDS-FG2121	High-Temperature Inorganic Adhe...
ZDS-FG2122	Ultra-High-Temperature Inorgani...

ZDS-RubberElast / 16

ZDS-RE3000	High-Flex Rubber Restorer
ZDS-RE3001	Rubber Lining Repair Compound
ZDS-RE3002	High-Temperature Rubber Conveyo...
ZDS-RE3003	High-Strength Cold-Vulcanizing ...
ZDS-RE3004	Conveyor Belt Wear-Armor Coatin...
ZDS-RE3005	EPDM Rubber Adhesive
ZDS-RE3006	Rapid Rubber Repair Compound
ZDS-RE3007	Rapid Rubber Repair Compound
ZDS-RE3008	Mining Conveyor Belt Repair Adh...
ZDS-RE3009	High-Temperature Conveyor Belt ...
ZDS-RE3010	Flame-Retardant Mining Cable Co...
ZDS-RE3011	Marine Cable Joint Vulcanizing ...
ZDS-RE3012	3-Minute Rapid Rubber Repair Co...
ZDS-RE3013	Tire Repair Adhesive
ZDS-RE3014	High-Efficiency Multi-Purpose C...
ZDS-RE3015	Metal Surface Treatment Agent

ZDS-CompositeWrap / 3

ZDS-CW5014	ProWrap Pipe Re-Inforcement Res...
ZDS-CW703	Fast-Cure Structural Laminate
ZDS-CW5013	Pultrusion Manufacturing Polyme...

ZDS-AquaShield / 3

ZDS-AS1002	Underwater Rebuilding Putty
ZDS-AS2186	Submerged-Asset Protective Coat...
ZDS-AS2187	Marine Engineering Equipment Pr...

ZDS-PolyAspartic / 1

ZDSPA1600	Clear Weather-Proof Armor
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ZDS-MR1101

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METAL REBUILDING & COLD REPAIR

Anti-Static GRE Structural Adhesive

- Electrical conductivity and static-discharge control
- Thixotropic, non-sag application
- Impact resistance

APPLICATIONS
GRE/FRP pipe joints, offshore platforms, desalination plants, industrial pipelines; repair and rebuilding.

SERVICE TEMP.
-50°C ~ +140°C
(short-term 170°C)

MIX RATIO
A:B = 1:1

CURE
24 h at ambient

VOLUME RESISTIVITY
0.05-2 Ω·cm

ZDS-MR1346

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METAL REBUILDING & COLD REPAIR

Ultra-Temp Cold-Weld Paste

- Thixotropic, non-sag application
- Rapid cure for reduced downtime
- High-temperature service capability

APPLICATIONS
Industrial pipelines; repair and rebuilding.

SERVICE TEMP.
-40°C ~ +300°C
(continuous)

MIX RATIO
A:B = 1:1

CURE
4-6 h (Initial:) / 24 h

TENSILE STRENGTH
≥30 MPa

ZDS-MR5017

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METAL REBUILDING & COLD REPAIR

Quick-Alloy Repair Compound

- Rapid cure for reduced downtime
- High mechanical and bonding strength
- High adhesion to prepared industrial substrates

APPLICATIONS
Pumps and pump casings, valves, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.
-50°C ~ +100°C

MIX RATIO
A:B = 1:1

CURE
Initial: 5-20min / 24 h

TENSILE STRENGTH
65-80 MPa

ZDS-MR5000

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METAL REBUILDING & COLD REPAIR

Cast Steel Repair Compound

- Machinable after cure
- Dimensional restoration
- High adhesion to prepared industrial substrates

APPLICATIONS
Pumps and pump casings, valves, flanges, pipe fittings, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 150°C

MIX RATIO
A:B = 2:1

CURE
24 h

DENSITY
1.85

ZDS-MR5001

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METAL REBUILDING & COLD REPAIR

Cast Iron Repair Compound

- Machinable after cure
 - High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Pumps and pump casings, valves, pipe fittings, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 180°C

MIX RATIO
A:B = 7:1

CURE
24 h

DENSITY
1.63

ZDS-MR5002

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METAL REBUILDING & COLD REPAIR

Steel Repair Compound

- High mechanical and bonding strength
 - High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Valves, flanges, pipe fittings, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 180°C

MIX RATIO
A:B = 7:1

CURE
24 h

DENSITY
1.63

ZDS-MR5003

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METAL REBUILDING & COLD REPAIR

Copper Repair Compound

- High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Heat exchangers and tube sheets, valves, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 150°C

MIX RATIO
A:B = 6:1

CURE
24 h

DENSITY
1.85

ZDS-MR5004

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METAL REBUILDING & COLD REPAIR

Aluminum Repair Compound

- Machinable after cure
 - High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Flanges, pipe fittings, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 180°C

MIX RATIO
A:B = 3:1

CURE
24 h

DENSITY
1.10

ZDS-MR5005

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METAL REBUILDING & COLD REPAIR

Stainless Steel Repair Compound

- Machinable after cure
 - Corrosion resistance
 - High adhesion to prepared industrial substrates
- APPLICATIONS**

Pumps and pump casings, valves, flanges, tanks and vessels, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 180°C

MIX RATIO
A:B = 4:1

CURE
24 h

DENSITY
1.85

ZDS-MR5006

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METAL REBUILDING & COLD REPAIR

Fiberglass Repair Compound

- High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Glass and stone components, protective linings, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 150°C

MIX RATIO
A:B = 4:1

CURE
24 h

DENSITY
1.37

ZDS-MR5007

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METAL REBUILDING & COLD REPAIR

Machinable Aluminum Repair Compound

- Machinable after cure
 - High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Pipe fittings, metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 180°C

MIX RATIO
A:B = 4:1

CURE
24 h

DENSITY
1.85

ZDS-MR1003

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METAL REBUILDING & COLD REPAIR

Rapid Metal Repair Compound

- Rapid cure for reduced downtime
 - High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS**

Valves, flanges, industrial pipelines; repair and rebuilding.

SERVICE TEMP.
-60 to 150°C

MIX RATIO
A:B = 2:1

CURE
6 h

TENSILE STRENGTH
360

ZDS-MR1347

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METAL REBUILDING & COLD REPAIR

Conductive Electrophoretic Repair Compound

- Electrical conductivity and static-discharge control
- High adhesion to prepared industrial substrates
- Field-applied structural repair

APPLICATIONS

Pipe fittings, metal components; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	DENSITY
-60 to 300°C	A:B = 4:1	24 h	1.40

ZDS-MR1006

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METAL REBUILDING & COLD REPAIR

Pipe Leak Repair Adhesive

- Rapid cure for reduced downtime
- High adhesion to prepared industrial substrates
- Field-applied structural repair

APPLICATIONS

PVC/PPR pipes; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	PACK SIZE
Typical: -40°C to +120°C	Typical A:B = 1:1	Typical Initial: 10-20 min; Full: 24 h at 25°C	50 ml

ZDS-MR5018

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METAL REBUILDING & COLD REPAIR

Nano-Ceramic Adhesive

- Wet and underwater service capability
- Multi-substrate compatibility
- Ceramic-reinforced protection

APPLICATIONS

Ceramic and glass-lined equipment, glass and stone components, industrial pipelines; bonding, repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	PACK SIZE
Typical: -40°C to +120°C	Typical A:B = 1:1	Typical Initial: 4-6 h; Full: 24 h at 25°C	100 g

ZDS-MR5019

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METAL REBUILDING & COLD REPAIR

Multi-Purpose Repair Compound

- Multi-substrate compatibility
- High adhesion to prepared industrial substrates
- Field-applied structural repair

APPLICATIONS

Ceramic and glass-lined equipment, glass and stone components, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	PACK SIZE
Typical: -40°C to +120°C	Typical A:B = 1:1	Typical Initial: 4-6 h; Full: 24 h at 25°C	100 g

ZDS-MR1348

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METAL REBUILDING & COLD REPAIR

Conductive Electrophoretic Adhesive

- Electrical conductivity and static-discharge control
 - High adhesion to prepared industrial substrates
 - Field-applied structural repair
- APPLICATIONS

Industrial metal components; repair and rebuilding.

SERVICE TEMP.
-60 to 300°C

MIX RATIO
A:B = 6:1

CURE
24 h

TENSILE STRENGTH
330

ZDS-MR5008

[VIEW TDS](#)



METAL REBUILDING & COLD REPAIR

Super Metal Repair Compound

- High mechanical and bonding strength
 - Multi-substrate compatibility
 - High adhesion to prepared industrial substrates
- APPLICATIONS

Pumps and pump casings, valves, flanges, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.
Typical: -40°C to +120°C

MIX RATIO
Typical A:B = 1:1

CURE
Typical Initial: 4-6 h; Full:
24 h at 25°C

PACK SIZE
1000 g

ZDS-CW5014

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PIPE REINFORCEMENT & FRP REPAIR

ProWrap Pipe Re-Inforcement Resin

- Low viscosity and efficient fibre wet-out
- Composite reinforcement and fibre wet-out
- High structural performance

APPLICATIONS

Industrial pipelines, metal components; structural reinforcement, sealing, repair and rebuilding.

SERVICE TEMP.
continuous 130°C

MIX RATIO
A:B = 50:1

CURE
24 h / 7 daysfull properties

FLEXURAL STRENGTH
>100 MPa

ZDS-CW703

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PIPE REINFORCEMENT & FRP REPAIR

Fast-Cure Structural Laminate

- Low viscosity and efficient fibre wet-out
- Rapid cure for reduced downtime
- Composite reinforcement and fibre wet-out

APPLICATIONS

Industrial pipelines, metal components; structural reinforcement, bonding.

SERVICE TEMP.
Heat distortion temperature: 140°C

MIX RATIO
A:B = 100:100

CURE
2 h at ambient

FLEXURAL STRENGTH
27 kg/mm²

ZDS-CW5013

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PIPE REINFORCEMENT & FRP REPAIR

Pultrusion Manufacturing Polymer

- Low viscosity and efficient fibre wet-out
- Rapid cure for reduced downtime
- High mechanical and bonding strength

APPLICATIONS

Industrial pipelines; structural reinforcement.

SERVICE TEMP.
-40°C ~ +130°C (continuous)

MIX RATIO
A:B = 50:1

CURE
120°C x 3 min (Full:);
Work: >60-120 min

TENSILE STRENGTH
≥75 MPa

ZDS-CA1188

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WEAR & EROSION PROTECTION

Heavy-Duty Cavitation Repair Paste

- Thixotropic, non-sag application
- Erosion and cavitation resistance
- Corrosion resistance

APPLICATIONS

Heat exchangers and tube sheets, pumps and pump casings, valves, pipe elbows and tees, tanks and vessels, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

Dry: -40°C to 220°C; wet:
up to 140°C

MIX RATIO

A:B = 1:1

CURE

Pot life: 25-35 min;
Chemical cure: 7 days

SHEAR STRENGTH

≥22 MPa

ZDS-CA1826

[VIEW TDS](#)

WEAR & EROSION PROTECTION

Fine-Particle Wear Resistant Coating

- Thixotropic, non-sag application
- High wear resistance
- Corrosion resistance

APPLICATIONS

Pumps and pump casings, tanks and vessels, impellers, slurry and bulk-material systems, powder and ash handling systems, industrial pipelines; protective coating, repair and rebuilding.

SERVICE TEMP.

-60°C to +160°C

MIX RATIO

A:B = 4:1

CURE

Pot life: 30 min (max. per
batch 1.5 kg), Light load:
12 h; Service: 12 h

DENSITY

2.38g

ZDS-CA1828

[VIEW TDS](#)

WEAR & EROSION PROTECTION

Coarse-Particle Impact Shield

- High wear resistance
- Corrosion resistance
- High-temperature service capability

APPLICATIONS

Chutes and hoppers, cyclones, separators, slurry and bulk-material systems, protective linings; protective coating, repair and rebuilding.

SERVICE TEMP.

-60°C to +168°C

MIX RATIO

A:B = 3:1

CURE

Pot life: 30 min (max. per
batch 1.5 kg); : 12 h

DENSITY

2.38g

ZDS-CA1189

[VIEW TDS](#)

WEAR & EROSION PROTECTION

High-Temperature Carbon-Nano Metal Repair Compound

- High wear resistance
- High-temperature service capability
- High mechanical and bonding strength

APPLICATIONS

Valves, shafts, bearing seats and machine surfaces, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

-60 to 220°C

MIX RATIO

A:B = 4:1

CURE

24 h

DENSITY

1.55

ZDS-CA1829

[VIEW TDS](#)

WEAR & EROSION PROTECTION

Shaft Wear Repair Compound

- Dimensional restoration
- High wear resistance
- Ceramic-filled protection for severe service

APPLICATIONS

Pumps and pump casings, shafts, bearing seats and machine surfaces, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

-60 to 180°C

MIX RATIO

A:B = 6:1

CURE

24 h

DENSITY

1.52

ZDS-CA1830

[VIEW TDS](#)

WEAR & EROSION PROTECTION

Hydraulic Cylinder Repair Compound

- High wear resistance
- Ceramic-filled protection for severe service
- Durable erosion and abrasion barrier

APPLICATIONS

Shafts, bearing seats and machine surfaces, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

-60 to 180°C

MIX RATIO

A:B = 5:1

CURE

24 h

TENSILE STRENGTH

400

ZDS-CA1831

[VIEW TDS](#)

WEAR & EROSION PROTECTION

Machine Guideway Repair Compound

- Dimensional restoration
- High wear resistance
- Smooth, low-friction surface

APPLICATIONS

Shafts, bearing seats and machine surfaces, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

-60 to 180°C

MIX RATIO

A:B = 5:1

CURE

24 h

TENSILE STRENGTH

400

ZDS-CA1832

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WEAR & EROSION PROTECTION

Blue Enamel Repair Compound

- Ceramic-filled protection for severe service
- Durable erosion and abrasion barrier

APPLICATIONS

Industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.

-60 to 160°C

MIX RATIO

A:B = 6:1

CURE

24 h

TENSILE STRENGTH

423

ZDS-CA1833

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WEAR & EROSION PROTECTION

Silicon Carbide Wear-Resistant Protection Compound

- High wear resistance
- Erosion and cavitation resistance
- Ceramic-filled protection for severe service

APPLICATIONS

Pumps and pump casings, pipe elbows and tees, flue and air ducts, slurry and bulk-material systems, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 150°C

MIX RATIO

A:B = 4:1

CURE

24 h

DENSITY

1.85

ZDS-CA1834

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WEAR & EROSION PROTECTION

Nano-Ceramic Pump Efficiency Coating

- High wear resistance
- Corrosion resistance
- Smooth, low-friction surface

APPLICATIONS

Pumps and pump casings, impellers; repair and rebuilding.

SERVICE TEMP.

-60 to 90°C

MIX RATIO

A:B = 6:1

CURE

24 h

DENSITY

1.40

ZDS-CA1835

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WEAR & EROSION PROTECTION

Fine-Particle Wear-Resistant Protection Compound

- High wear resistance
- Erosion and cavitation resistance
- Ceramic-filled protection for severe service

APPLICATIONS

Pipe elbows and tees, slurry and bulk-material systems, powder and ash handling systems, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 150°C

MIX RATIO

A:B = 4:1

CURE

24 h

TENSILE STRENGTH

366

ZDS-CA1836

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WEAR & EROSION PROTECTION

Coarse-Particle Wear-Resistant Protection Compound

- High wear resistance
- Impact resistance
- Ceramic-filled protection for severe service

APPLICATIONS

Pipe elbows and tees, chutes and hoppers, slurry and bulk-material systems, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 150°C

MIX RATIO

A:B = 4:1

CURE

24 h

TENSILE STRENGTH

366

ZDS-CA1837

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WEAR & EROSION PROTECTION

Rapid-Cure Fine-Particle Wear Protection Compound

- High wear resistance
- Rapid cure for reduced downtime
- Ceramic-filled protection for severe service

APPLICATIONS
Pipe elbows and tees, slurry and bulk-material systems, industrial pipelines; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	COMPRESSIVE STRENGTH
-60 to 250°C	A:B = 4:1	2 h	967

ZDS-CA1838

[VIEW TDS](#)

WEAR & EROSION PROTECTION

High-Temperature Fine-Particle Wear Protection Compound

- High wear resistance
- High-temperature service capability
- Ceramic-filled protection for severe service

APPLICATIONS
Slurry and bulk-material systems, powder and ash handling systems, industrial pipelines; protective coating.

SERVICE TEMP.	MIX RATIO	CURE	TENSILE STRENGTH
-60 to 250°C	A:B = 4:1	24 h	366

ZDS-CA1841

[VIEW TDS](#)

WEAR & EROSION PROTECTION

High-Temperature Coarse-Particle Wear Protection Compound

- High wear resistance
- Erosion and cavitation resistance
- High-temperature service capability

APPLICATIONS
Pipe elbows and tees, slurry and bulk-material systems, powder and ash handling systems, industrial pipelines; protective coating.

SERVICE TEMP.	MIX RATIO	CURE	PRODUCT FORM
-60 to 250°C	A:B = 4:1	24 h	Paste

ZDS-CA1842

[VIEW TDS](#)

WEAR & EROSION PROTECTION

Rapid-Cure Coarse-Particle Wear Protection Compound

- High wear resistance
- Rapid cure for reduced downtime
- Ceramic-filled protection for severe service

APPLICATIONS
Pumps and pump casings, chutes and hoppers, slurry and bulk-material systems, industrial pipelines; protective coating.

SERVICE TEMP.	MIX RATIO	CURE	PRODUCT FORM
Typical: -40°C to +150°C	Typical A:B = 1:1	Typical Initial: 10-20 min; Full: 24 h at 25°C	Paste

ZDS-CA1843

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WEAR & EROSION PROTECTION

Brushable Enamel Wear Protection Coating

- High wear resistance
- Brushable application
- Ceramic-filled protection for severe service

APPLICATIONS
Heat exchangers and tube sheets, pumps and pump casings, valves, tanks and vessels, impellers, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 160°C

MIX RATIO

A:B = 8:1

CURE

60 h

TENSILE STRENGTH

396

ZDS-CA1844

[VIEW TDS](#)



WEAR & EROSION PROTECTION

Brushable High-Temperature Nano Anti-Corrosion Coating

- Corrosion resistance
- High-temperature service capability
- Brushable application

APPLICATIONS
Heat exchangers and tube sheets, boilers, flue and air ducts, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 260°C

MIX RATIO

A:B = 9:1

CURE

36 h

TENSILE STRENGTH

396

ZDS-CA1845

[VIEW TDS](#)



WEAR & EROSION PROTECTION

High-Temperature Silicon Carbide Wear Protection Compound

- High wear resistance
- Erosion and cavitation resistance
- High-temperature service capability

APPLICATIONS
Slurry and bulk-material systems, powder and ash handling systems, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 250°C

MIX RATIO

A:B = 4:1

CURE

24 h

DENSITY

1.85

ZDS-CA1839

[VIEW TDS](#)



WEAR & EROSION PROTECTION

Wear-Resistant Ceramic Structural Adhesive

- High wear resistance
- High mechanical and bonding strength
- Ceramic-reinforced protection

APPLICATIONS
Pipe elbows and tees, chutes and hoppers, ceramic and glass-lined equipment, industrial pipelines; bonding.

SERVICE TEMP.

Typical: -40°C to +150°C

MIX RATIO

Typical A:B = 2:1

CURE

Typical Initial: 12-24 h;
Chemical cure: 7 days at 25°C

PACK SIZE

10 kg

ZDS-CA1840

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WEAR & EROSION PROTECTION

Impact-Resistant Wear Protection Compound

- High wear resistance
 - Impact resistance
 - Ceramic-filled protection for severe service
- APPLICATIONS

Pumps and pump casings, pipe elbows and tees, slurry and bulk-material systems, industrial pipelines; protective coating.

SERVICE TEMP.	MIX RATIO	CURE	TENSILE STRENGTH
-60 to 150°C	A:B = 4:1	24 h	366

ZDS-AS1002

[VIEW TDS](#)


Underwater Rebuilding Putty

- Resistance to chemical media
- Rapid cure for reduced downtime
- Wet and underwater service capability

APPLICATIONS
Marine structures, tanks and vessels, pools and water features, industrial pipelines; repair and rebuilding.

WET-SURFACE & UNDERWATER
REPAIR

SERVICE TEMP.

Continuous: 80 to 90°C;
short-term: 120°C

MIX RATIO

A:B = 1:1

CURE

Work: 3-6 min; Initial:
5-10 min; Full: 24 h

TENSILE STRENGTH

12-18 MPa

ZDS-AS2186

[VIEW TDS](#)


Submerged-Asset Protective Coating

- Corrosion resistance
- Resistance to chemical media
- Rapid cure for reduced downtime

APPLICATIONS
Marine structures, industrial pipelines; protective coating, repair and rebuilding.

WET-SURFACE & UNDERWATER
REPAIR

SERVICE TEMP.

Suitable for underwater
service and 0°C
conditions

MIX RATIO

A:B = 2:1

CURE

Initial: 1 h / Full: 24-48 h

TENSILE STRENGTH

≥25 MPa

ZDS-AS2187

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Marine Engineering Equipment Protection Coating

- Wet and underwater service capability
- Adhesion to damp and submerged substrates
- Waterproof field repair

APPLICATIONS
Offshore platforms, marine structures, industrial pipelines; protective coating.

WET-SURFACE & UNDERWATER
REPAIR

SERVICE TEMP.

-60 to 150°C

MIX RATIO

A:B = 8:1

CURE

24 h

TENSILE STRENGTH

326

ZDS-FG2113

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

Novolac High-Velocity Barrier Coating

- Corrosion resistance
- Resistance to chemical media
- High-temperature service capability

APPLICATIONS

Heat exchangers and tube sheets, pumps and pump casings, valves, pipe elbows and tees, tanks and vessels, flue and air ducts; protective coating.

SERVICE TEMP.

Dry: 280 to 300°C; wet: ≤180°C

MIX RATIO

2:1

CURE

Pot life: 4-6h; Tack-free: 16-20h

GLASS TRANSITION (TG)

≥220°C

ZDS-FG1151

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

Hydro-Efficiency Flow Topcoat

- Resistance to chemical media
- High-temperature service capability
- Smooth, low-friction surface

APPLICATIONS

Heat exchangers and tube sheets, pumps and pump casings, valves, tanks and vessels, flue and air ducts, industrial pipelines; protective coating.

SERVICE TEMP.

Dry: -40°C to 180°C; wet: up to 120 to 130°C

MIX RATIO

A:B = 3:1

CURE

Pot life: 35-45 min; Full: 7 days

GLASS TRANSITION (TG)

≥105°C (ambient cure)

ZDS-FG4018

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

Ultimate Acid-Storage Tank Liner

- Corrosion resistance
- Barrier protection against aggressive fluids
- Designed for demanding thermal service

APPLICATIONS

Industrial pipelines, metal components; protective coating.

SERVICE TEMP.

80°C / 120°C

MIX RATIO

A:B = 4:1

CURE

Tack-free: 20-24h, Full: 7 days

BOND STRENGTH

Grade 0-2

ZDS-FG1157

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

Titanium Alloy Repair Compound

- Corrosion resistance
- High-temperature service capability
- High mechanical and bonding strength

APPLICATIONS

Pipe fittings, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.

-60 to 180°C

MIX RATIO

A:B = 4:1

CURE

24 h

DENSITY

1.85

ZDS-FG2123

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Enamel Repair Compound

- Corrosion resistance
- High-temperature service capability
- Barrier protection against aggressive fluids

APPLICATIONS

Boilers, flue and air ducts, furnace and refractory components, industrial pipelines; protective coating.

SERVICE TEMP.

-60 to 200°C

MIX RATIO

A:B = 4:1

CURE

24 h

DENSITY

1.45

ZDS-FG2114

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

300°C High-Temperature Enamel Repair Compound

- Corrosion resistance
- High-temperature service capability
- Barrier protection against aggressive fluids

APPLICATIONS

Boilers, flue and air ducts, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

-60 to 300°C

MIX RATIO

A:B = 2.5:1

CURE

24 h

DENSITY

2.15

ZDS-FG1152

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

Brushable Enamel Repair Coating

- High wear resistance
- Corrosion resistance
- Brushable application

APPLICATIONS

Heat exchangers and tube sheets, pumps and pump casings, valves, impellers, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

-60 to 200°C

MIX RATIO

A:B = 4:1

CURE

24 h

TENSILE STRENGTH

423

ZDS-FG1153

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

Glass-Lined Reactor Repair Compound

- Resistance to chemical media
- Barrier protection against aggressive fluids
- Designed for demanding thermal service

APPLICATIONS

Reactors, industrial pipelines, protective linings; repair and rebuilding.

SERVICE TEMP.

-60 to 200°C

MIX RATIO

A:B = 4:1

CURE

24 h

TENSILE STRENGTH

323

ZDS-FG1154

[VIEW TDS](#)


HIGH-TEMPERATURE & CHEMICAL SERVICE

Solvent-Resistant Repair Compound

- Resistance to chemical media
- Barrier protection against aggressive fluids
- Designed for demanding thermal service

APPLICATIONS
Pumps and pump casings, valves, tanks and vessels, industrial pipelines, protective linings; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	TENSILE STRENGTH
-60 to 100°C	A:B = 2:1	24 h	420

ZDS-FG1155

[VIEW TDS](#)


HIGH-TEMPERATURE & CHEMICAL SERVICE

Peel-Resistant Anti-Corrosion Repair Compound

- Corrosion resistance
- Multi-substrate compatibility
- High peel resistance

APPLICATIONS
Ceramic and glass-lined equipment, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	TENSILE STRENGTH
-60 to 150°C	A:B = 6:1	24 h	420

ZDS-FG2115

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HIGH-TEMPERATURE & CHEMICAL SERVICE

Super High-Temperature Metal Repair Compound

- High-temperature service capability
- Barrier protection against aggressive fluids
- Designed for demanding thermal service

APPLICATIONS
Boilers, flue and air ducts, industrial pipelines, metal components; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	PACK SIZE
Typical: -40°C to +180°C	Typical A:B = 1:1	Typical Initial: 4-6 h; Full: 24 h at 25°C	1000 g

ZDS-FG1156

[VIEW TDS](#)


HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Corrosion-Resistance Enamel Repair Compound

- Corrosion resistance
- High-temperature service capability
- Barrier protection against aggressive fluids

APPLICATIONS
Reactors, industrial pipelines, protective linings; repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	PACK SIZE
Typical: -40°C to +180°C	Typical A:B = 1:1	Typical Initial: 12-24 h; Chemical cure: 7 days at 25°C	1000 g

ZDS-FG2124

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Repair Compound

- High-temperature service capability
- Barrier protection against aggressive fluids
- Designed for demanding thermal service

APPLICATIONS

Valves, boilers, flue and air ducts, furnace and refractory components, industrial pipelines; repair and rebuilding.

SERVICE TEMP.
-60 to 300°C

MIX RATIO
A:B = 2:1

CURE
24 h

DENSITY
1.51

ZDS-FG2116

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Sealing Compound

- High-temperature service capability
- Barrier protection against aggressive fluids
- Designed for demanding thermal service

APPLICATIONS

Flanges, boilers, industrial pipelines; sealing.

SERVICE TEMP.
-60 to 350°C

MIX RATIO
A:B = 5:1

CURE
24 h

DENSITY
1.40

ZDS-FG2117

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

Flexible High-Temperature Sealant

- High-temperature service capability
- Flexible, tear-resistant performance
- Electrical insulation

APPLICATIONS

Flanges, industrial pipelines; sealing.

SERVICE TEMP.
-60 to 450°C

MIX RATIO
A:B = 20:1

CURE
24-72 h

TENSILE STRENGTH
35

ZDS-FG2118

[VIEW TDS](#)

HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Flue Anti-Corrosion Coating

- High wear resistance
- Erosion and cavitation resistance
- Corrosion resistance

APPLICATIONS

Boilers, flue and air ducts, industrial pipelines; protective coating.

SERVICE TEMP.
-60 to 500°C

MIX RATIO
A:B = 1-2:1

CURE
Heat cure required

COMPRESSIVE STRENGTH
630

ZDS-FG2119

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Nano-Ceramic Adhesive

- Corrosion resistance
- High-temperature service capability
- Ceramic-reinforced protection

APPLICATIONS
Heat exchangers and tube sheets, boilers, industrial pipelines; bonding, repair and rebuilding.

SERVICE TEMP.	MIX RATIO	CURE	COMPRESSIVE STRENGTH
-60 to 800°C	A:B = 1-2:1	Heat cure required	650

ZDS-FG2120

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Inorganic Structural Adhesive

- Resistance to chemical media
- High-temperature service capability
- Barrier protection against aggressive fluids

APPLICATIONS
Furnace and refractory components, ceramic and glass-lined equipment, industrial pipelines; bonding.

SERVICE TEMP.	MIX RATIO	CURE	COMPRESSIVE STRENGTH
-60 to 1000°C	A:B = 1-2:1	Heat cure required	677

ZDS-FG2121

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

High-Temperature Inorganic Adhesive

- High-temperature service capability
- Ceramic-reinforced protection
- Barrier protection against aggressive fluids

APPLICATIONS
Furnace and refractory components, ceramic and glass-lined equipment, industrial pipelines; bonding.

SERVICE TEMP.	MIX RATIO	CURE	COMPRESSIVE STRENGTH
-60 to 1200°C	A:B = 1-2:1	Ambient cure	620

ZDS-FG2122

[VIEW TDS](#)



HIGH-TEMPERATURE & CHEMICAL SERVICE

Ultra-High-Temperature Inorganic Adhesive

- Resistance to chemical media
- High-temperature service capability
- Flame-resistant performance

APPLICATIONS
Furnace and refractory components, ceramic and glass-lined equipment, industrial pipelines, protective linings; bonding.

SERVICE TEMP.	MIX RATIO	CURE	COMPRESSIVE STRENGTH
-60 to 1800°C	A:B = 1-2:1	Heat cure required	720

ZDSPA1600

VIEW TDS



Clear Weather-Proof Armor

- Weathering and UV resistance
 - High-gloss clear protective finish
 - Long-term exterior durability
- APPLICATIONS
- Offshore platforms, industrial pipelines; protective coating.

OUTDOOR PROTECTIVE TOPCOATS

SERVICE TEMP.	MIX RATIO	CURE	TENSILE STRENGTH
Ambient-cure protective service	A:B = 100:60	Tack-free: 2 h / 24 h	25 MPa

ZDS-RE3000

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

High-Flex Rubber Restorer

- High wear resistance
- Resistance to chemical media
- Flexible, tear-resistant performance

APPLICATIONS
Conveyor belts, protective linings; repair and rebuilding.

SERVICE TEMP.

Typical: -30°C to +80°C

MIX RATIO

A:B = 1:1

CURE

Work: 2-3 min
Load-bearing: 1 h Full: 3 h

PRODUCT FORM

Elastomeric repair material

ZDS-RE3001

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Rubber Lining Repair Compound

- Corrosion resistance
- Cold-applied elastomeric repair
- Flexible bonding and sealing

APPLICATIONS
Tanks and vessels, industrial pipelines, protective linings; repair and rebuilding.

SERVICE TEMP.

-60 to 150°C

MIX RATIO

A:B = 4:1

CURE

24 h

DENSITY

1.37

ZDS-RE3002

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

High-Temperature Rubber Conveyor Belt Adhesive

- Rapid cure for reduced downtime
- High-temperature service capability
- Cold-applied elastomeric repair

APPLICATIONS
Conveyor belts; repair and rebuilding.

SERVICE TEMP.

-40 to 150°C

MIX RATIO

A:B = 10:1

CURE

24 h

SHEAR STRENGTH

3.5 MPa

ZDS-RE3003

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

High-Strength Cold-Vulcanizing Rubber Adhesive

- High mechanical and bonding strength
- Cold-applied elastomeric repair
- Flexible bonding and sealing

APPLICATIONS
Conveyor belts, protective linings, metal components; bonding.

SERVICE TEMP.

-35 to 120°C

MIX RATIO

A:B = 100:4

CURE

24 h

SHEAR STRENGTH

5 MPa

ZDS-RE3004

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Conveyor Belt Wear-Armor Coating

- High wear resistance
- Cold-applied elastomeric repair
- Flexible bonding and sealing

APPLICATIONS
Conveyor belts; protective coating.

SERVICE TEMP.

-60 to 100°C

MIX RATIO

A:B = 20:1

CURE

24 h

SHEAR STRENGTH

10 MPa

ZDS-RE3005

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

EPDM Rubber Adhesive

- Cold-applied elastomeric repair
- Flexible bonding and sealing

APPLICATIONS

Industrial pipelines, protective linings; bonding, sealing.

SERVICE TEMP.

-35 to 120°C

MIX RATIO

A:B = 100:4

CURE

24 h

SHEAR STRENGTH

5 MPa

ZDS-RE3006

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Rapid Rubber Repair Compound

- Rapid cure for reduced downtime
- Cold-applied elastomeric repair
- Flexible bonding and sealing

APPLICATIONS
Conveyor belts, industrial pipelines, protective linings; repair and rebuilding.

SERVICE TEMP.

-40 to 85°C

MIX RATIO

A:B = 9:1

CURE

16 h

SHEAR STRENGTH

10 MPa

ZDS-RE3007

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Rapid Rubber Repair Compound

- Rapid cure for reduced downtime
- Cold-applied elastomeric repair
- Flexible bonding and sealing

APPLICATIONS
Conveyor belts, protective linings; repair and rebuilding.

SERVICE TEMP.

-40 to 85°C

MIX RATIO

A:B = 3:1

CURE

16 h

SHEAR STRENGTH

10 MPa

ZDS-RE3008

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Mining Conveyor Belt Repair Adhesive

- Ready-to-use single-component application
 - Cold-applied elastomeric repair
 - Flexible bonding and sealing
- APPLICATIONS**

Conveyor belts, protective linings; repair and rebuilding.

SERVICE TEMP.

-30 to 80°C

MIX RATIO

Single-component

CURE

4-6 h

SHEAR STRENGTH

5.5 MPa

ZDS-RE3009

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

High-Temperature Conveyor Belt Repair Adhesive

- High-temperature service capability
 - Ready-to-use single-component application
 - Cold-applied elastomeric repair
- APPLICATIONS**

Conveyor belts; repair and rebuilding.

SERVICE TEMP.

-30 to 200°C

MIX RATIO

Single-component

CURE

4-6 h

SHEAR STRENGTH

5.5 MPa

ZDS-RE3010

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Flame-Retardant Mining Cable Cold-Patch Compound

- Flame-resistant performance
 - Cold-applied elastomeric repair
 - Flexible bonding and sealing
- APPLICATIONS**

Industrial cables and joints; repair and rebuilding.

SERVICE TEMP.

-40 to 85°C

MIX RATIO

A:B = 1:1

CURE

2 h

SHEAR STRENGTH

10 MPa

ZDS-RE3011

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Marine Cable Joint Vulcanizing Compound

- Wet and underwater service capability
 - Cold-applied elastomeric repair
 - Flexible bonding and sealing
- APPLICATIONS**

Offshore platforms, marine structures, industrial cables and joints, industrial pipelines; sealing.

SERVICE TEMP.

Typical: -30°C to +80°C

MIX RATIO

Typical A:B = 1:1

CURE

Typical Initial: 4-6 h; Full: 24 h at 25°C

PACK SIZE

150 g

ZDS-RE3012

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

3-Minute Rapid Rubber Repair Compound

- Rapid cure for reduced downtime
 - Cold-applied elastomeric repair
 - Flexible bonding and sealing
- APPLICATIONS**

Conveyor belts, protective linings; repair and rebuilding.

SERVICE TEMP.

-40 to 85°C

MIX RATIO

A:B = 1:1

CURE

3 h

SHEAR STRENGTH

10 MPa

ZDS-RE3013

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Tire Repair Adhesive

- Flexible, tear-resistant performance
 - High mechanical and bonding strength
 - Ready-to-use single-component application
- APPLICATIONS**

Industrial tyres and service vehicles, industrial pipelines; repair and rebuilding.

SERVICE TEMP.

Typical: -30°C to +80°C

MIX RATIO

Single-component

CURETypical Drying time:
15-30 min at 25°C**PACK SIZE**

30 ml

ZDS-RE3014

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

High-Efficiency Multi-Purpose Cleaner

- Removes oil, wax and surface contamination
 - Promotes consistent surface preparation
- APPLICATIONS**

Conveyor belts, industrial pipelines, protective linings, metal components; surface cleaning, bonding.

SERVICE TEMP.Process aid; application
temperature: 5°C to 35°C**MIX RATIO**

Single-component

CURE

No cure required

PACK SIZE

500 g

ZDS-RE3015

[VIEW TDS](#)

RUBBER & ELASTOMER REPAIR

Metal Surface Treatment Agent

- Improves surface readiness for bonding
 - Single-component, ready-to-use treatment
- APPLICATIONS**

Flanges, industrial pipelines, protective linings, metal components; surface preparation, bonding.

SERVICE TEMP.Process aid; application
temperature: 5°C to 35°C**MIX RATIO**

Single-component

CURE

No cure required

PACK SIZE

500 g

KEEP INDUSTRIAL ASSETS RUNNING LONGER.

Model-specific repair, reinforcement and protective solutions for demanding industrial service.

PRODUCT FAMILIES

- MR** ZDS-MetalRebuild - Metal rebuilding & cold repair
- CW** ZDS-CompositeWrap - Pipe reinforcement & FRP repair
- CA** ZDS-CeramicArmor - Wear & erosion protection
- AS** ZDS-AquaShield - Wet-surface & underwater repair
- FG** ZDS-FluidGlide - High-temperature & chemical service
- PA** ZDS-PolyAspartic - Outdoor protective topcoats
- RE** ZDS-RubberElast - Rubber & elastomer repair

Product selection support, application guidance and model-specific technical data

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