

TECHNICAL DATA SHEETS

General Technical Guide

MODEL SELECTION / DATA INTERPRETATION / APPLICATION PLANNING

Use together with model-specific documents and project requirements.



01

Purpose and scope

A practical guide to finding and using model-specific ZDSCChem technical data.

This guide explains how ZDSCChem Technical Data Sheets support product selection, application planning and project review. It does not replace a model-specific TDS: service limits, mix ratio, working time, layer thickness, cure schedule and performance data must always be taken from the sheet for the exact product model.

PRODUCT FAMILIES

7

Repair, reinforcement and protection series

MODEL-SPECIFIC TDS

82

Technical sheets organized by exact model

DOCUMENT RULE

1

Use the current TDS for the selected product

Product portfolio at a glance

MR

ZDS-MetalRebuild

Metal rebuilding & cold repair

18 MODELS

CW

ZDS-CompositeWrap

Pipe reinforcement & FRP repair

3 MODELS

CA

ZDS-CeramicArmor

Wear & erosion protection

21 MODELS

AS

ZDS-AquaShield

Wet-surface & underwater repair

3 MODELS

FG

ZDS-FluidGlide

High-temperature & chemical service

20 MODELS

PA

ZDS-PolyAspartic

Outdoor protective topcoats

1 MODEL

RE

ZDS-RubberElast

Rubber & elastomer repair

16 MODELS

02

How to read a model TDS

Use each field in context; test method and application conditions matter.

01

Product identity

Confirm the exact model, product title, series and component configuration before use.

02

Intended use

Match the stated applications and substrate types to the actual repair or protection task.

03

Service temperature

Check continuous, intermittent, dry or immersed limits exactly as stated for the model.

04

Mix ratio

Follow the specified A:B ratio and basis of measurement. Do not estimate proportions visually.

05

Working & cure time

Plan batch size, application time, initial cure and return-to-service around actual site temperature.

06

Application parameters

Review product form, application temperature, recommended thickness and method of application.

07

Performance data

Interpret strength, hardness, chemical and electrical values with their test conditions and units.

08

Storage & safety

Confirm storage guidance, shelf-life status and the product-specific Safety Data Sheet before handling.

IMPORTANT

Do not compare performance values from different products unless the test method, specimen, substrate, cure condition and units are equivalent.

03

From selection to return to service

The model-specific TDS controls every numerical value and product limit.

1

Confirm duty

Identify substrate, defect, geometry, fluid or chemical exposure, pressure, temperature and required downtime.

2

Prepare the surface

Isolate the area. Remove contamination and unsound material. Create the profile required by the selected TDS.

3

Condition & measure

Check component temperature and site conditions. Measure each component using the specified ratio and method.

4

Mix & apply

Mix until uniform, observe working time, and apply with the stated method, thickness and reinforcement sequence.

5

Cure & inspect

Protect the repair during cure. Verify coverage, adhesion, hardness or other project acceptance checks.

6

Return to service

Do not load, immerse or heat the system until the specified cure stage and project approval are achieved.

SITE DECISION RULE

If the actual substrate, environment or duty falls outside the selected model TDS, stop and obtain technical review before application.

04

Choose the right document

Start with the exact product model and the real operating condition.

Project information to gather

- Exact equipment, component and substrate material
- Defect type, dimensions and required repair geometry
- Continuous and peak service temperature
- Fluid, chemical, immersion and environmental exposure
- Pressure, movement, vibration, wear or impact conditions
- Available surface preparation, application and cure window
- Required inspections, approvals and return-to-service criteria

DOCUMENT CONTROL

Use the latest model-specific TDS available from ZDSCHEM. Record the model and document revision in the project file, and retain relevant application records.

For safety, handling and emergency information, obtain the corresponding product-specific SDS.

Find model-specific documents

Visit the ZDSCHEM website or contact your authorized supplier with the exact model number and destination market.

VISIT [ZDSCHEM.COM](https://www.zdschem.com)