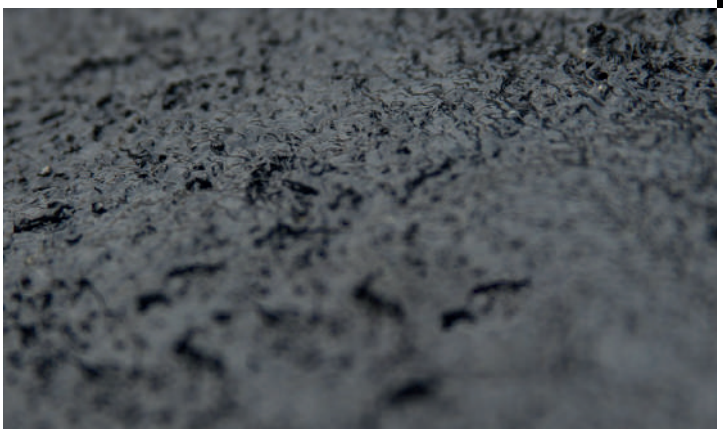
GENERAL INFORMATION

Description: Two-component epoxy compound in a 1:1 ratio for the repair and protection of equipment and parts exposed to wear due to abrasion, impact and vibration caused by fine particles. Contains 1 mm aluminum oxide ceramic spheres which allow small holes in metal surfaces to be repaired with a smooth finish.



Product characteristics: Fast cure (60 minutes) at 25°C (77°F). Excellent adhesion to steel, ceramic and concrete. Thixotropic product does not run or drip when applied on vertical or overhead surfaces. Allows you to resume operations in just 1 hour.

Main uses: Repair and protection of pump casings, discharge protection of mills, pneumatic conveyors, screw conveyors, wear plates, sprayers, dust collectors, chippers, protection of pipe elbows, cyclones and hoppers.

PHYSICAL PROPERTIES

The technical information described below should be considered a reference and does not represent a product warranty.

TESTS	RESULTS	UNIT
Appearance/color of the Resin	Viscous/pasty black	VISUAL
Appearance/color of the Hardener	Viscous/pasty white	VISUAL
Component Resin and Hardener mixture color	Dark gray	VISUAL
Specific gravity	2.10	g/cm3
Wet bulb temperature resistance	60/140	°C/°F
Dry bulb temperature resistance	150/302	°C/°F
Mixed viscosity	Pasty/thixotropic	VISUAL
Functional cure light loads 25°C (77°F)	60	MINUTES
Full functional cure heavy loads 25°C (77°F)	90	MINUTES
Pot Life at 25°C (77°F)	35	MINUTES
Second coat cure time	2	HOURS

MECHANICAL PROPERTIES

Typical **Durafast® MX2** applied mechanical properties: Cures at 7 days at 25°C/77°F and 36% humidity:

TESTS	RESULTS	UNIT	TEST METHODS
Adhesion shear strength	10/1,450	N/mm2/PSI	ASTM D1002
Coefficient of thermal expansion	34.0	[(in.)/(in) x °F)] x 10(-6)	ASTM D696
Tensile strength	29.65/4,300	N/mm2/PSI	ASTM D695
Compressive strength	75.84/11,000	N/mm2/PSI	ASTM D695
Cured hardness	87.0	SHORE D	ASTM D2240

TESTS	RESULTS	UNIT	TEST METHODS
Cured shrinkage	0.0008	in./in.	ASTM D2566
Dielectric constant	41.0	-	ASTM D150
Flexural strength	49.22/7,140	N/mm2/PSI	ASTM D790
Reverse impact resistance	7-12/61.8 - 106	N.m/pulg-lb	ASTM D2794
Taber Abrasion	0.001 – 0.004/0.000035 – 0.00014	g/1000 ciclos/oz/100 ciclos	ASTM D4060

Application performance of **Durafast® MX2** per 1 kg/2.2 lb of product:

COVERAGE (SI)			
Coating thickness	6 mm	8 mm	10 mm
Coverage area	0.09 m2	0.07 m2	0.05 m2

COVERAGE (IMPERIAL)			
Coating thickness	0.25 in.	0,32 in.	0,39 in.
Coverage area	0.43 ft2	0.35 ft2	0.26 ft2

CHEMICAL RESISTANCE

Chemical resistance of the product is calculated with a 7-day, 25°C (77°F) cure and 30-day immersion.

CHEMISTRY	PERFORMANCE
1,1,1-Trichloroethane	Very good
Acetic acid 10%	Poor
Benzene	Very good
Gasoline (unleaded)	Fair
Hydrochloric acid 10%	Very good
Methanol	Poor
Methyl ethyl ketone	Very good
Methylene chloride	Poor

CHEMISTRY	PERFORMANCE
Nitric acid 50%	Fair
Phosphoric acid 10%	Fair
Potassium hydroxide 40%	Excellent
Sodium hydroxide 50%	Excellent
Sodium hypochlorite	Very good
Sulfuric acid 10%	Very good
Toluene	Excellent
Trisodium phosphate	Very good

SURFACE PREPARATION

1. Abrade the surface by grit blasting with 8-40 grit or an abrasive disc pad until white metal appears. The desired profile is 3-5 mil including defined edges.

2. Apply Durafast® Cleaning Solvent to remove all traces of oil, grease, dust or other foreign substances resulting from grit blasting and allow to dry.

MIXING AND APPLICATION PROCEDURE

1. Remove **Durafast® MX2** component resin and **Durafast® MX2** component hardener from their respective packaging.

1.1. FOR 2 kg KIT: Place both components on a smooth, disposable surface (cardboard, wood veneer, or plastic sheet) and mix vigorously using a trowel or shovel tool until a uniform gray consistency is obtained (make sure the mixture maintains a 1:1 ratio).

1.2. FOR 5 kg AND 10 kg KIT: Place both components in the plastic bucket provided as the kit packaging and mix using a T-shaped mixing paddle or low viscosity Jiffy Mixer on a power drill. Move the mixer vigorously from the bottom to the top of the bucket until a uniform gray consistency is obtained (make sure the mixture maintains a 1:1 ratio).

1.3. Component Resin tends to crystallize at low temperatures. If this happens, heat the product inside its packaging until it reaches a viscous, putty-like state.

2. Evenly spread the mixed material over the area to be repaired at a minimum thickness of 6 mm (1/4”), ensuring maximum surface area contact between the substrate and **Durafast® MX2.**

3. Wait 60 minutes at 25°C/77°F. Once this time has elapsed, the product will reach its functional cure and the equipment will be ready to operate again.

NOTES

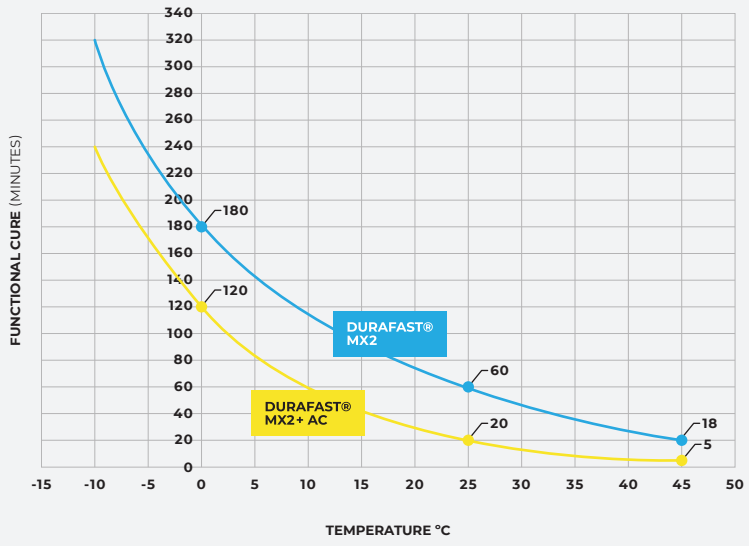
1. Functional cure times may change based on room temperature at time of application.

2. If you want to speed up the functional cure time, you can use **Durafast® Accelerator** (not included in the kit).

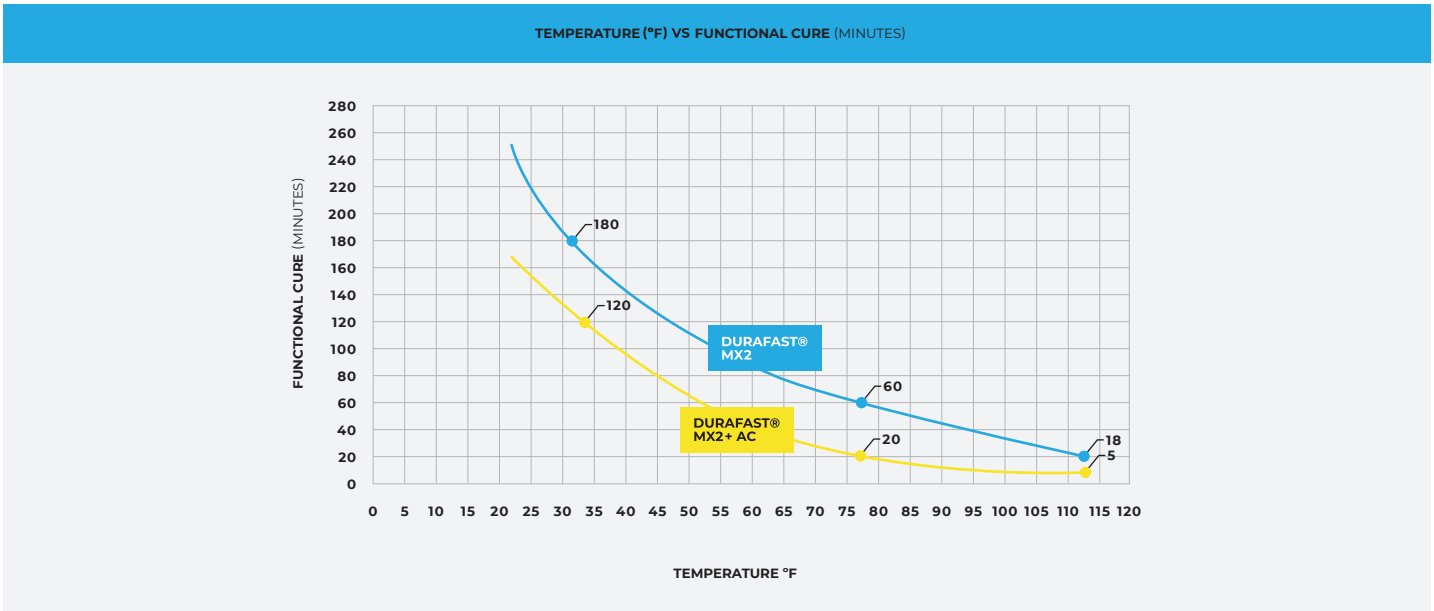
CURE TIMES

Functional cure times relative to room temperature of **Durafast® MX2** with and without Durafast® Accelerator are shown below:

TEMPERATURE (°C) VS FUNCTIONAL CURE (MINUTES)



BERTECH®
WE MAKE IT SIMPLE



FOR BRIDGING LARGE GAPS OR HOLES: Place fiberglass sheet or galvanized metal mesh between the area to be repaired and the **Durafast® MX2** prior to application.

FOR VERTICAL SURFACE APPLICATIONS: Apply and spread a very thin layer of **Durafast® MX2** to wet the surface and promote adhesion, then continue applying to desired thickness.

STORAGE

Store at room temperature between 20°C (68°F) and 30°C (86°F).

ADDITIONAL INFORMATION

The information in this document is based on technical laboratory testing and does not represent a guarantee of the properties mentioned in this document.

CAUTION

Read the product's Safety Data Sheet (SDS) before use.

FOR INDUSTRIAL USE ONLY