



TECHNICAL DATA SHEET

CERAMI-FLEX E.G.

Two Component Polyurethane Repair Compound



Thortex Cerami-Flex E.G. is a high performance solvent free flexible poly ceramic repair compound designed for the rebuilding and resurfacing of equipment operating in fluid flow environments.

Thortex Cerami-Flex E.G. is based on a complex blend of high molecular weight and urethane polymers blended with inert pigments and silicas reacted with an amine accelerated isocyanate resin which produces a system with the optimum physical and mechanical strength.

Thortex Cerami-Flex E.G. offers a resilient high performance system with outstanding protection against impingement, entrainment, cavitation and erosion corrosion and is ideal for resurfacing, propellers, kort nozzles, guide vanes and tube sheets etc.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All dirt, and contamination should be removed, then surfaces should be degreased using **Thortex Universal Cleaner**. Surfaces should now be abrasive blasted to Sa2½ BS7079: PART A1 1989, or equivalent with a medium to coarse profile.

Equipment which has become salt impregnated due to service conditions should, first be wet blasted then dry abrasive blasted and checked for presence of salts. This process should be repeated until the salts are removed.

Alternatively, surfaces should be warmed with a blow torch or heat gun to bring salts up to the surface. The surface should once again be blast cleaned. This process must be repeated until no further sweating of impregnated salts is evident.

All residual abrasive dust should be blown clear of the prepared surface. Surfaces which are not required to bond to the **Thortex Cerami-Flex** should be treated with **Thortex Release Agent**.

MIXING

Thortex Cerami-Flex E.G. is a two component solvent free material comprising base and activator components which must be mixed together prior to use.

Add all the contents of the activator container into the base container and mix thoroughly, alternatively measure three volumes of base and one volume of activator into a clean container and mix thoroughly.

The two components initially are fluid, but on mixing form a paste material. To ensure thorough mixing, the paste should be transferred to a mixing board and further mixing carried out to produce a streak free material.

The mixed material should be used within 20 minutes of mixing at 20°C (68°F). This time will be reduced at higher temperatures and extended at lower temperatures.

APPLICATION

Application should be carried out as soon as possible after the surface preparation is complete, and certainly within 4 hours otherwise flash blasting will be necessary before application.

The mixed material should be applied by spatula, pressing the material into the surface taking care not to trap air in deep cavities.

All equipment must be cleaned IMMEDIATELY after use with **Thortex Universal Cleaner**.

Volume Capacity

835cc (53cu ins) per kilo

Detailed working recommendations are available from the Technical Centre on request.

PHYSICAL CONSTANTS

Mixing Ratio	Base	Activator	
	3	1	By Volume
	3	1	By Weight

Appearance Base Light Grey Thixotropic Liquid
 Activator Brown Liquid

Drying & Cure times at

20°C (68°F)	Usable Life	20 minutes
	Touch Dry	2 hours
	Hard Dry	4 hours
	Full Cure	7 days

Volume Solids 100%

V.O.C. Nil

Shelf Life Use within 2 years of purchase. Store in original sealed containers when at temperatures between 5°C (40°F) and 30°C (86°F).

Food Contact Meets FDA Requirements CFR 21.175.300 for food contact.
 Meets USDA requirements for incidental food contact.

PHYSICAL PROPERTIES

Tensile Strength	200 kg/cm ² (2825 psi)
ASTM D412	
Abrasion Resistance	0.08 ml loss per 1000 cycles
ASTM D4060	1 kg load CS 17 Wheel
Corrosion Resistance	Unaffected after 5000 hours exposure
ASTMB117	
Impact Resistance	20 Joules (175 ins lbs)
ASTM D256	
Flexibility	30%
ASTM D522-4	

FOR FURTHER INFORMATION PLEASE CONTACT

HEALTH AND SAFETY

As long as normal good practice is observed **Thortex Cerami-Flex E.G.** can be safely used.

Protective gloves should be worn during use.

A fully detailed **Material Safety Data Sheet** is either included with the material or is available on request.

PACKAGING

Supplied in 1kg packs.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests.



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