



CERAMI-FLEX E.G.

Two Component Polyurethane Repair Compound



Thortex Cerami-Flex E.G. is a high performance solvent free flexible polyceramic 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 Sa2½BS7079; 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 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

53 cu ins per kilo

Detailed working recommendations are available from the Technical Center 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 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 40°F and 86°F.		
Food Contact	Meets FDA Requirements CFR 21.175.300 for food contact Meets USDA requirements for incidental food contact. Canadian Food Inspection Agency – Accepted product		

PHYSICAL PROPERTIES

Tensile Strength ASTM D412	200 kg/cm ² (2825 psi)
Abrasion Resistance ASTM D4060	0.08 ml loss per 1000 cycles 1 kg load CS 17 Wheel
Corrosion Resistance ASTM B117	Unaffected after 5,000 hrs exposure
Impact Resistance ASTM D256	175 ins lbs
Flexibility ASTM D522-4	30%

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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