



## Technical Data Sheet (TDS)

### Product Description

**CeraMixx** is a Low VOC, high solids, two-component sprayable ceramic urethane coating.

#### Product features:

- Very good impact resistance
- High abrasion resistance & adhesion strength
- High build
- Outstanding chemical resistance
- Excellent weatherability
- Solid colors only
- VOC compliant

### Recommended Uses

CeraMixx is intended for industrial applications, either new build or maintenance. It can be used to coat steel, concrete, masonry, or other substrates where mechanical, corrosion, chemical and thermal protection is required.

#### Industries:

- Oilfield & Energy Services
- Chemical facilities
- Power Plants
- Water treatment facilities
- Waste and Recycling Industry

It is recommended that you contact Endura prior to application to discuss the preferred method and adaptations that best suit your needs.

### Product Characteristics

<b>Gloss:</b> Medium: 60GU at 60°	
<b>Slight gloss variations will occur depending on color.</b>	
<b>Volume Solids Mixed: (Unreduced) CLRM12814:FUB2600 (2:1)</b>	72% ± 4%
<b>Volume solids will vary by color</b>	
<b>Pot Life: (77°F (25°C) and 50% RH)</b>	8 - 10 Hours
<b>Pot life is reduced when Super Catalyst II is used</b>	
<b>VOC Mixed (Unreduced): EPA Method 24 CLRM12814:FUB2600 (2:1)</b>	247 g/l 2.062 lb /gal
<b>VOC Content will vary by color All colors are below 420 g/l</b>	
<b>Shelf Life: For unopened product (77°F (25°C))</b>	
<b>Component A</b>	3 years
<b>Component B</b>	2 years

### Surface Preparation

CeraMixx can be applied over all Endura primer sealers and primer surfacers without sanding during their topcoat window. The topcoat window varies with each primer. See the relevant primer technical data sheet for the specific topcoat window data.

If the primer topcoat window has been surpassed, the primer should be sanded with 240 – 280 grit sandpaper to achieve inter-coat adhesion. All sanding dust must be blown off prior to application of the topcoat.

### Mix Ratio

2 parts by volume of component A [**CLRMXXXX**]  
(Part Number varies with color)  
1 part by volume of component B [**FUB2600**]

The recommended temperature when mixed is 68-77°F (20-25°C).

### Application Method

CeraMixx can be applied using most spray-painting systems. Apply one to two single wet coats to achieve desired film build. Allow 30 minutes to 4-hours flash time between coats.

**Assure that any solvent absorbent primer surfacers are properly sealed with a primer sealer prior to application of the topcoat.**

**Periodic agitation may be required to keep the ceramic particles in suspension.**

Spray Gun Setup			
Feed Type	Fluid Tip	Application Pressures (heel of gun)	Fluid Delivery
<b>Siphon Feed</b>	1.6-1.8 mm	40-50 psi	
<b>Gravity Feed</b>	1.3-1.4 mm	30-40 psi	
<b>Pressure Feed</b>	1.0-1.4 mm	55-65 psi	12-14 oz/min
<b>Air Assist Airless</b>	9 -13 Thou	1,000-1,800 psi	
<b>Airless</b>	9 -13 Thou	1,700-3,000 psi	

Suggested Viscosity Ranges Ford 4 Viscosity Cup at 68°F (20°C)	
<b>Airless</b>	17 - 20 secs
<b>Air Assist Airless</b>	16 - 18 secs
<b>Conventional</b>	14 - 17secs

**Spraying viscosity and thinning will depend on ambient conditions, spray equipment used, and the desired surface finish.**

**Before reducing perform a spray test.**

To maintain VOC compliance, if required, thin with Endura Low VOC topcoat Thinners/Reducers.

FTH0021 – Low VOC Topcoat Thinner/ Reducer

FTH0023 – Slow Low VOC Topcoat Thinner / Reducer

## Technical Data Sheet (TDS)

### Film Build

CeraMixx recommended film build thickness:

<b>Wet: WFT Unreduced</b>	4.0 – 13.5 mils	100 – 345 microns
<b>Dry: DFT</b>	3.0 – 10 mils	75 – 250 microns

Theoretical coverage at 1.0 mil (25 microns)  
Average DFT is: 1154 ft<sup>2</sup> per gallon at 100 % transfer efficiency.

### Dry Times

	68-77°F(20-25°C)
<b>Dry to Touch</b>	4-6 Hours
<b>Dry to Handle</b>	1 Day
<b>Full Cure</b>	7-9 Days

**Dry Times are subject to ambient conditions (temperature and humidity) and good airflow and film build of the topcoat.**

For best results surface temperature must be 86°F (30°C) or less before topcoating. Maximum re-coat window without sanding is 18 hrs at 68°F (20°C). After 18 hours CeraMixx must be mechanically sanded with 220 – 320 grit to achieve inter-coat adhesion.

**The use of Super Catalyst II with Endura topcoats will accelerate drying times.**

For questions about scheduling please contact your Endura representative.

### Clean Up

Clean all equipment immediately after use with Endura High Strength Gun Wash, or Endura EX-2C thinner.

Follow manufacturer's safety recommendations when using any solvent.

### Ordering Information (sizing)

Product lead times may apply.  
Please contact your Endura Representative for further information regarding stock availability and lead times.

<b>CeraMixx</b>	3 mixed quarts (2.84l)	
Comp A- X2	CLRMXXXXX-020	1 quart (946 ml)
Component A Part numbers vary by color		
Comp B	FUB2600-020	1 quart (946 ml)

<b>CeraMixx</b>	3 mixed gallons (11.34l)	
Comp A- X2	CLRMXXXXX-030	1 gallon (3.78l)
Component A Part numbers vary by color		
Comp B	FUB2600-030	1 gallon (3.78l)

Other custom sizes may be available.

### Environmental Conditions

For optimum coating performance product, substrate and ambient temperature should be between 68°F-77°F (20°C-25°C). To prevent condensation during application the surface temperature must be 5°F (3°C) or more above the dew point at all times.

For use outside this range please contact your Endura Representative.

### Specifications

<b>Hardness</b>	ASTM D3363	3H Plus
<b>Solvent Resistance</b>	ASTM D4752	100 MEK Rubs; No Failure
<b>Abrasion resistance (1000 cycles CS-17)</b>	ASTM D4060	< 15mg loss
<b>Impact resistance</b>	ASTM D2794	100 in. lbs; NO failure
<b>Adhesion Strength</b>	ASTM D4541	Pull up ; No failure between Substrate and Ceramixx > 3500psi
<b>Sag</b>	ASTM D4400	10 mils plus using High Sag B Component
<b>Service Temp</b>	-40°F to 360°F	-40°C to 182°C

### Safety Precautions

Please refer to all Safety Data Sheets (SDS) before using this product. SDS sheets can be found on our website at [www.endurapaint.c](http://www.endurapaint.c)