



High Solids Epoxy Coating for Ceramic Substrates

# ceraglaze S1475

two component solvent based thermocure epoxy

## General Description

**ceraglaze S1475** a range of performance, high solids thermosetting epoxy coatings designed to give a tough chemical resistant finish to ceramic-based articles. These high solids coatings contain less than 550g per litre of volatile organic solvent at application viscosities. **ceraglaze S1475** distinguishes itself by its short cure cycle and high film integrity. The highly modified polymer system produces a coating film of unrivalled chemical and abrasion resistance. Enhanced adhesion to the substrate provides **ceraglaze S1475** with its unique properties, water soak, perfume immersion resistance and solvent resistance.

## Applications

**ceraglaze S1475** may be used on a variety of ceramic substrates where optimum coating adhesion and chemical resistance are required. **S1475** coated articles show outstanding resistance to alcohol and perfume oils. The high film build properties of **S1475** make the product particularly useful in areas where high gloss and film toughness are prime requirements.

## Key Properties

- Chemical Resistance
- High Solids
- High Gloss & Image Clarity
- Abrasion Resistance
- Excellent Adhesion
- Ease of use

## Specification

**ceraglaze S1475** is supplied with the following physical properties. Although these parameters are typical of batch manufacture they do not constitute a specification.

Physical Property	Units	Method	Minimum	Maximum
Colour	-	visual	various	
VOC	g/litre		285	550
Gloss	units	GL-60-01	5	90
NVC (supplied RFU)	%		44	78
Cure Time(180-230°C)	minutes		8	14



"a world of difference"



### Thinning

**ceraglaze S1475** requires thinners **M1480** or **M1481** to be added to obtain a spray application viscosity of 15-17 seconds measured on a DIN4 flow cup at 25°C.

### Surface Preparation

The substrate must be clean, free from contaminants and grease. If small areas of contamination are evident then localised cleaning with surfactant wash is recommended. On highly contaminated articles, steam degreasing is advised.

### Application

Method of application: conventional and HVLP spray, electrostatic disc

### Curing

Flash off time: 1-2 minutes  
Curing time: 8-14 minutes @ 200-230°C

### Film Properties

Property	Test	Result
Adhesion	1 mm cross-hatch, tape pull off	no removal
Bend	6 mm mandrel	no removal
Hardness	Pencil test	2H minimum
100% ethanol	24 hours @ 20°C	no effect
3% Acetic Acid	24 hours @ 20°C	no effect
Heat Resistance	Stable to 160°C	no effect
2% caustic soda	24 hours @ 20°C	No effect
Solvent Resistance	MEK rubs	100
Pasteurisation	30 minutes in water @ 65°C	No effect



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