

ULTRA THERMOSHIELD

Polyurethane Based Coating for Steel/Cementitious Surface

Adhesives,

Admixtur
e

Grouts &
Anchors,

Concrete
Repairs,

Protecting
Coatings,

Industrial
Flooring,

Surface
Treatment

Description

Ultra Thermoshield is two components, aromatic isocyanate cured polyurethane coating.

Recommended Use

Ultra Thermo-Shield is UV resistant, PU based, Two component waterproofing and heat insulation material that used for reducing the interior temperature of the building with reflecting radiant heat energy and minimize the surface temperature with its micro-spherical particles. Through heat ceramics micro-spheres contained in the product, the protection system provides energy saving up to 20-30%. The sun rays reflecting back 95%. The UV's rays reflecting back 85%.

Features

- Good adhesion on metal & concrete surfaces
- Excellent flexibility
- Corrosion resistance properties
- Water & chemical resistance

Physical Properties

Finish	Flat – Semi flat
Color	White

Solid volume	by	53±5%
Specific Gravity		1.3+0.1 gr/cm ³
Flash Point		30 ⁰ C
Recommended D.F.T		80-100 microns
Theoretical coverage		7.25-4.8m ² /Lit
Touch dry		3 hrs. at 20 ⁰ C
Hard dry		24 hrs.at 20 ⁰ C
Full Cured		7 days.at 20 ⁰ C
Thermal resistance		Max.120 ⁰ C (dry exposure)

Application

Application method	Air/Airless spray, brush, roller
Surface temperature	10-40 ⁰ C
Mixing ratio (by weight)	5:1
Packaging (A+B)	Customized
Recoat Interval	Min16 hrs.at 20 ⁰ C, Max 7 days at 20 ⁰ C
Pot Life	5 hrs.at 20 ⁰ C
Application condition	Apply only on a dry and clean surfaces
Nozzle orifice	0.017”-0.021”
Nozzle pressure	150 bar/2175 psi

Surface Preparation

- All surfaces to be coated should be completely clean, dry and free from contamination surface preparation method shall be in accordance with ISO 8504:2000.
- Remove salt and other water-soluble

contaminants by fresh water.

- Remove oil and grease with suitable detergent or solvent(SSPC-SP-1)
- Remove rust, mill scale and other loose material completely by abrasive blasting (ISO 8501-1:2007 Sa 2 ½ or SSPC SP-10).

Safety Precautions

Avoid inhalation of spray mist or vapor, Avoid skin and eye contact. Paint contacted with skin should be immediately removed with water and/or suitable cleanser. Eye should be flushed with water and seek immediate medical attention, Since this product contains flammable solvents, keep away from sparks and open flames, Application and handling of this product should be in compliance with relevant national regulations.

Storage

Store in dry, cool condition and away from sources of heat and ignition. Containers must be kept tightly closed, Store conditions shall be in accordance with nation regulations.

Storage

12 months from date of production.

Ultra Chemicals, LLC. USA

2153 North Westwood, Main Blvd, Poplar Bluff, MO 63901. Phone 573-778-3367 Fax 573-778 3376

info@ultra-chemicals.com. www.ultra-chemicals.com

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