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## Eracoat 2K Rapid

POLYASPARTIC TOPCOAT

# TECHNICAL DATASHEET

## Description

Eracoat 2K Rapid is a solvent free, 100% solids, aliphatic coating designed as an abrasion resistant topcoat for polyurea and polyurethane systems or as a stand-alone product over properly prepared substrates. It is available in six standard colours for a wide range of flooring and decking applications.

## Uses

- Industrial equipment
- Deck coatings
- Garage floors
- Industrial, commercial flooring
- Food processing plant walls, floors and ceilings
- UV resistant overcoat (polyurea and polyurethane)

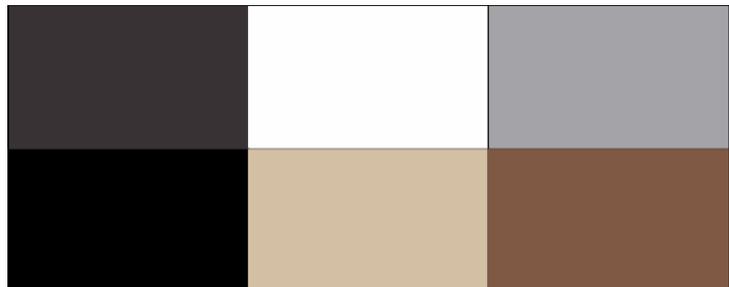
## Features

- Mix ratio 1:1 (Volume)
- Solvent free – Zero VOC, no flammability issues, minimal environmental impact
- Aliphatic – excellent colour and gloss retention
- Fast Cure – High productivity
- Excellent ageing in outdoor exposures

## Colours

Eracoat 2K Rapid is available in 6 colours:

- Clear
- Black
- White
- Grey
- Beige
- Chocolate Brown



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## Physical Properties

Properties presented below are to be used as a guide and not intended for specification purposes.

		Eracoat 2K Rapid
<b>Composition</b>		Two-Pack, 100% Solids, Polyaspartic
<b>Volume solids</b>	(%)	100
<b>Service Temperature</b>	(°C)	Up to 100°C
<b>Incidental contact</b>	(°C)	Up to 180°C
<b>Mix ratio (by volume)</b>		1:1
<b>Curing time</b>	(hours)	1 hour tack free* Foot traffic: 2 hours*
<b>Pot life</b>	(minutes)	40
<b>Shelf life</b>	(months)	12
<b>Odour</b>		Very Low smell
<b>Tensile Strength</b>	(MPa)	17
<b>Elongation</b>	(%)	73
<b>Hardness</b>	(Shore A/Shore D)	90 / 50
<b>Tear Strength</b>	(Kg/cm)	56
<b>UV resistance</b>		No chalking, no cracking, no yellowing
<b>Re-coating interval</b>	(days)	1 to 18 hours
<b>Recommended relative humidity</b>	(%)	Between 20 and 90

\*Drying time is temperature, humidity and film thickness dependent. Thicker films will take longer to through-cure. High humidity will shorten cure time.

## Application instructions

The application details provide general procedures to be followed for all applications of the Eracoat 2K Rapid. When applying the Eracoat 2K Rapid, proper equipment is essential. The main application tool for each step is a 270 mm Epoxy Roller Cover with an adjustable roller cage. During the project the roller should be rolled dry every 10-18 m<sup>2</sup>. This will prevent the roller from becoming tacky and it will increase the life of the roller. After the initial roll it is important to back roll the floor. Back rolling is done to ensure even application and will help with breaking any balloons that may have formed from filling pinholes. On average a roller cover will do 45-90 m<sup>2</sup> before replacement.

Prior to application, proper surface preparation is required. Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, loose particles and rust.

**Consumption:** Apply between 0.08 and 0.25 mm wet film thickness per coat. Optimum wet film thickness will vary with project specifics.

**Mixing:** This is a two-component system. When mixing the material, use graduated plastic mixing

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containers. Each batch that is being mixed on a project, will require a new plastic mixing container, however, after the project is complete, the cured material can be pulled out of the containers and they can be reused.

First, mix Eracoat 2K Rapid Part B thoroughly before use. Combine equal parts Eracoat 2K Rapid Part A and Eracoat 2K Rapid Part B by volume. If necessary, Eracoat 2K Rapid may be thinned using Xylene or MEK. For a semi-gloss finish contact ERA for a Matte Reducer. Use care when mixing to avoid incorporation of air. This process in total should take no more than 1-1/2 minutes. Mix only the volume used within the pot-life. For a concrete floor, best results are found by mixing enough material for 10 minutes of rolling after which another 10-minute-sized batch is mixed. On average this is 1-3 Litres of mixed material and is project dependent. After material is mixed, it should be poured out in a ribbon across the area that will be rolled. The above amount will be enough material to pour out 2-4 ribbons. Do not use a roller tray.

It should be noted that if these ribbons are a non-skid coat, the aggregate has a propensity to settle. If the material is not rolled out sufficiently to pick up and spread this settled aggregate, it can result in a ghost where the ribbon was poured, caused from an abundance of non-skid remaining where the material was poured out.

Allow at least 2 hours before light foot traffic and 24 hours before return to service. Cure time is very dependent on temperature and humidity. In cold dry conditions the cure time will be significantly prolonged.

Technical Tip: The reason we don't use a roller tray and always use a fresh mixing container is because each mixed batch can catalyse fresh material which can drastically reduce the pot life of newly mixed material.

## PROJECT SPECIFIC APPLICATIONS

### Non-Skid Finish

Eracoat 2K Rapid can be used to produce a durable non-skid finish with three optional textures. NS-75 or NS-100 are recommended for most flooring and decking applications. They provide adequate traction and easy to clean surface. For increased traction NS-50 or NS-20 can be employed. NS-20 will provide the most aggressive traction but will make cleaning more difficult. The desired non-skid additive should be added to the Eracoat 2K Rapid part B and thoroughly blended prior to mixing with the Eracoat 2K Rapid part A. Apply at a maximum wet film thickness of 0.1 mm for best results. If wet film thickness is too high the non-skid effect will be lost and surface appearance will not be uniform. If higher film build is required apply multiple thin coats for best performance and uniform appearance. Optionally, the non-skid coat can be applied as the final coat only. See the table below for typical addition level of NS.

Non-skid Powder Application Chart (add to part B)		
4 Kg can		
	g	mL
NS-20 (coarse grade)	200	525
NS-50 (medium grade)	200	525
NS-75 (50+100)	200+400	525+1050
NS-100 (fine grade)	400	1050

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## Colour Chip Flooring

Color Chips can be used in conjunction with the Eracoat 2K Rapid to create an attractive and durable surface coating. It is recommended that the coatings contractor perform in-house testing and evaluation to determine the best technique for their specific application.

For general use, refer to the following procedure.

**Step 1:** Apply Eracoat 2K Rapid colour coat at approximately 7 m<sup>2</sup> per Litre to provide a uniform colour base. Colour choice will depend on the colour chip collection. Allow surface to cure to tack free (approximately 1-2 hours).

**Step 2:** Apply a second coat of Eracoat 2K Rapid colour coat at approximately 15 m<sup>2</sup> per Litre. Broadcast colour chips uniformly to surface. The amount of colour chips used will depend on the desired effect. Allow surface to cure approximately 1-2 hours.

**Step 3:** Remove excess colour chips and lightly scuff surface to produce a semi-smooth appearance. Broom or vacuum surface so it is free of any loose particles and dust.

**Step 4:** Apply Eracoat 2K Rapid clear coat at approximately 3.5 m<sup>2</sup> per Litre. Apply additional coats if a very smooth surface is desired.

These procedures are not intended as specific application instructions. The amount used and final appearance will depend on the specific project undertaken. Proper surface preparation, job-site conditions and adequate safety precautions are the responsibility of the coatings contractor.



## Accent Colour Flooring

Eracoat 2K Rapid accent colours can be used to create a durable, granite like, attractive floor finish. Accent colours can be used as an alternative to colour chips where a more durable and less textured finish is desired. For general use, refer to the following procedure.

**Step 1:** Apply Eracoat 2K Rapid colour coat at approximately 7 m<sup>2</sup> per Litre to provide a uniform colour base. Colour choice will depend on the splash accent colour selection. Allow surface to cure to tack free (approximately 1-2 hours).

**Step 2:** Apply first Eracoat 2K Rapid splash accent colour using splatter-gun at desired setting. Size and concentration of splash accent colours will depend on splatter-gun settings and speed of each pass.

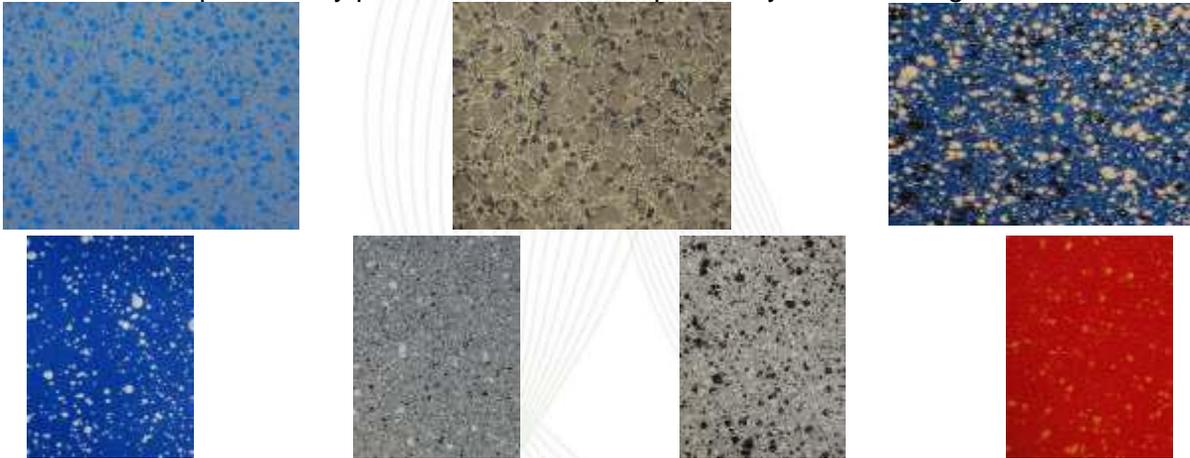
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Allow the surface to cure for approximately 1-2 hours.

**Step 3:** Apply traditional splash accent colours as in Step 2, Two or three splash accent colours are used in typical applications. Allow 1-2 hours cure time after final splash accent colour.

**Step 4:** Apply Eracoat 2K Rapid NS-100 clear coat at approximately 7 m<sup>2</sup> per Litre.

These procedures are not intended as specific application instructions. The amount used and final appearance will depend on the specific project undertaken. Proper surface preparation, job-site conditions and adequate safety precautions are the responsibility of the coatings contractor.



## Clean-up

Reusable tools should be cleaned carefully with MEK before curing.

## Shelf life

Shelf life of sealed Eracoat 2K Rapid in its original container is 12 months.

Store in a cool and dry place for product integrity. Store in tightly sealed containers to protect from moisture and foreign materials. Moisture contamination will result in significant reduction in pot-life.

## Safety:

Please refer to the Material Safety Data Sheet (MSDS) for personal protection, proper handling and storage.

## **Important Notice**

1. Eracoat 2K Rapid has been developed to protect and extend the longevity of the floor surface/substrate to which it has been applied, however as Era Polymers has no control over substrate preparation and Eracoat 2K Rapid installation, Era Polymers cannot guarantee the number of months/years Eracoat 2K Rapid will provide in extending the longevity of the floor/substrate.
2. When cured Eracoat 2K Rapid provides a gloss finish which may vary subject to drying conditions, application techniques and final finished film thickness.

## **Warranty:**

Written claims to be made to seller within 7 days of goods received. Era Polymers (Era) warrants its products to be free of defects in materials, and within their manufacturing specification but makes no warranty as to application and installation. As methods of application and on site conditions are beyond the manufacturers' control and can affect performance, Era makes no other warranty, expressed or implied, including warranties of merchantability and fitness for a particular purpose. Era Polymers sole obligation shall be, at its option, to replace, or refund the purchase of the quantity of coatings proved to be defective and Era shall not be liable for any loss or damage including incidental or consequential damages arising from the use of Era products.

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