

Technical Data Sheet

isopol.roofline RCFR113-21808A / PFRDG FIRE RETARDANT ROOFING TOPCOAT

Description

isopol.roofline RCFR113-21808A /PFRDG Fire Retardant Roofing Topcoat is a pre-accelerated, isophthalic acid based polyester roofing topcoat which is available in a dark grey pre-pigmented colour.

Product Use

isopol.roofline RCFR113-21808A /PFRDG Fire Retardant Roofing Topcoat is recommended for use in flat roofing applications where regulations specify a fire-retardant system.

Liquid Properties and Approvals

isopol.roofline RCFR113-21808A /PFRDG Fire Retardant Roofing Topcoat is a dark grey, air-free liquid.

Conforms to BS476 Part 3:2004, FAB classification when applied at a wet film thickness of 500 – 600 microns and fabricated with a single ply of 450 g/m² of emulsion bound chopped strand mat, consolidated with the optimum quantity of an orthophthalic acid based general purpose laminating resin onto 18 mm OSB3 grade board.

Characteristics and Cure

Exhibits effective air release properties as well as water resistance. The isopol.roofline RCFR113-21808A /PFRDG Fire Retardant Roofing Topcoat is designed to be applied for roller or brush applications with a tack-free finish.

Gel Time (2% medium reactive MEKP @ 25°C): < 15 minutes

Mechanical Properties

(*Properties of the cured unreinforced resin)

Barcol Hardness [EN59]: 42

Tensile strength [ISO 527 (2012)]: 82 MPa

Tensile Elongation [ISO 527 (2012)]: 4%

Flexural Strength [ISO 178 (2011)]: 102 MPa

Flexural Modulus [ISO 178 (2011)]: 4500 MPa

HDT [ISO 75-2A (2013)]: 77°C

Application

isopol.roofline RCFR113-21808A /PFRDG Fire Retardant Roofing Topcoat is designed for use at ambient temperatures between 15-30°C. Before use, gently agitate the topcoat to homogenise. Add 1.5 – 2.5% (by weight) of a general purpose methyl ethyl ketone peroxide (MEKP) to the topcoat for a sufficient cure. Care must be taken to avoid incorporating air into the topcoat when mixing. Apply the topcoat evenly across the roof surface with a target film thickness of 500-600 microns. Always check the wet film thickness and avoid any water contamination prior to full cure.

Storage and Packaging

Store in tightly closed, original container in a cool (freezing conditions must be avoided), dry, well ventilated place away from direct sunlight. The shelf life and properties of the topcoat can be adversely affected by incorrect storage conditions. Only open containers immediately before use and carefully re-seal after use. isopol.roofline RCFR113-21808A /PFRDG Fire Retardant Roofing Topcoat is available in multiple pack sizes. Use within 4 months of date of manufacture.

Health and Safety

Please refer to separate Material Safety Data sheet. Avoid curing gelcoats in bulk to prevent excessive temperature build-up.

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Disclaimer

The information provided in this technical data sheet is based on controlled laboratory testing and is suitable for guidance purposes only. Colorplas recommends that customers should check all colour paste's & topcoats on a trial basis, prior to full production in their specific working conditions, to satisfy themselves of product suitability.

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