

Product Datasheet



AkzoNobel

Tomorrow's Answers Today

Powder Coatings Resicoat[®] RB-600 Reinforcing Steel Code: HKF30R

Product Description

Resicoat[®] RB 600 is a Fusion Bonded Epoxy coating for steel reinforcing bars which complies with the requirements of ASTM A775 standard specification for Epoxy Coated Steel Reinforcing Bars, and meets the requirements of AASHTO R-18.

Powder Properties

	Result	Method
Binder system	Epoxy resin	
Density	1.20 – 1.25 g/cm ³	ISO 8130-2
Gel time at 200° C	15 – 19 sec.	ISO 8120-6
at 230° C	8 – 10 sec.	hot plate
Storage stability	4 months from delivery date at ≤ 23° C	
MSDS	PC 513	

Application Data

Preheating temperature	230 – 240° C object temp.
Post cure conditions	self curing on 8 mm steel at above temp.
Particle size distribution	< 32 µm = 15 – 25 % < 160 µm = 99 – 100 %

Material Properties

Colour	bright-green	
Recommended film thickness	180 – 280 µm	
Flow	smooth	
Gloss at 60° angle	70 – 90 sec.	DIN 67530
Cross cut test	Gt 0	DIN EN ISO 2409
Impact resistance	no cracking	ASTM G 14-72
Abrasion resistance	30 mg	ASTM D 4060
Flexibility	pass on 4 d mandrel	ASTM D 775
Elongation	17 %	DIN 30671
Hardness	> 90	DIN EN ISO 2815
Breakdown voltage	> 30 kV/mm	
Cathodic disbonding	2 mm	ASTM G 8-92, 168 h

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GK

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Disclaimer: This Product Data Sheet is based on the present state of our knowledge and on current laws. The data referring to Powder Properties, Application Data and Physical Tests is based on lab based samples. Factors such as quality or condition of the substrate may have an effect on the use and application of the product. It remains the responsibility of the user to test thoroughly if the product is applicable for the intended use. The use of the product beyond our recommendation releases us from our responsibility, unless we have recommended the specific use in writing. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. We are not liable for any application-technological advice. The Product Data Sheet shall be updated from time to time. Please ensure you have the latest version before using the product. All products and Product Data Sheets are subject to our standard terms and conditions of sale (GCS). You can receive the latest copy of GCS via internet or our post address. Brand names mentioned in this Product Data Sheet are trademarks of or are licensed to the AkzoNobel group.

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