Product Datasheet

AkzoNobel
Tomorrow's Answers Today

Functional Powder Coatings
Resicoat® R-641
FBE – External Pipe Coatings
Code: HLF63R

Product Description

Resicoat® R-641 is designed for use as the top layer in a Dual Layer Coating System to provide excellent mechanical and gouge resistant properties. It provides protection from mechanical damage during handling/installation, backfill and directional drilling. The coating is applied to a thickness of 400 – 600 µm (16 – 24 mils) depending on the end specification.

		Typical value	Method
Powder Properties	**Binder system**	Epoxy resin	
	Density	1.45 – 1.55 g/cm³	ISO 8130-2
	Gel time at 205° C (401° F)	12 – 18 sec.	CSA Z245.20-10 12.13
	Storage stability	12 months from delivery date at ≤ 23° C (74° F).	
Application Data	**Particle size distribution**	< 200 µm > 99.5 %	ISO 8130-1
	Min. application temperature of R-641	220° C (428° F)	
	Max. application temperature of R-641	240° C (464° F)	
Material Properties	**Recommended film thickness**	400 – 600 µm (16 – 24 mils)	
	Impact resistance*	3.0 J o.k	CSA Z245.20-10 12.12
	Bendability*	2° at -30° C (-22° F)	CSA Z245.20-10 12.11
	Cathodic disbondment*		CSA Z245.20-10 12.8
		< 6.5 mm	-3.5 VDC, 65° C (149° F), 24 h
		< 8.5 mm	-1.5 VDC, 20° C (68° F), 28 d
		< 20 mm	-1.5 VDC, 65° C (68° F), 28 d
	*** dependant on the base coat quality**		

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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.