

Polypropylene

Borcoat™ BB127E-PW**Grafted Polypropylene Adhesive for Steel Pipe Coating****Description**

Borcoat BB127E-PW is a maleic anhydride grafted polypropylene (PP) adhesive. The product is non-pigmented (not coloured) and available in powder form for spray application.

Applications

Steel pipe coating

Borcoat BB127E-PW is intended to be used as an adhesive in three-layer-PP based anti-corrosion or in multi-layer-PP based thermal insulation coatings at design temperatures up to 110°C for onshore and 140°C for offshore applications.

Borcoat BB127E-PW is intended to fulfill below mentioned national and international standards and specifications, when appropriate industrial manufacturing standard procedures are applied, a continuous quality system is implemented and when used in combination with a compatible Fusion Bonded Epoxy (FBE) powder and the top-coat material Borcoat BB108E-1199.

Specifications

Borcoat BB127E-PW and/or articles produced from it, are expected to meet the applicable requirements included in the below mentioned standards provided it is processed using sound material handling and processing practices as well as appropriate testing procedures.

DIN 30678

DNVGL-RP-F106

EN ISO 21809-1

NF A49-711

Physical properties

Property	Typical value *	Unit	Test method
Density	900	kg/m ³	ISO 1183-1/Method A
Melt flow rate (230 °C/2.16 kg)	7.5	g/10min	ISO 1133-1
Flexural Modulus (2 mm/min) (23°C)	1000	MPa	ISO 178
Moisture content ¹	≤300	ppm	ISO 15512
Melting temperature ²	165	°C	ISO 11357-3
Tensile modulus (1 mm/min) (23°C)	1000	MPa	ISO 527-2
Tensile stress at yield (50 mm/min) (23°C)	20	MPa	ISO 527-2
Tensile strain at break (50mm/min) (23°C)	≥400	%	ISO 527-2
Charpy impact strength, notched (-20 °C)	4	kJ/m ²	ISO 179-1/1eA
Vicat softening temperature A50 (10 N)	145	°C	ISO 306
Peel strength (23°C) ³	≥250	N/cm	ISO 21809-1
Peel strength (80°C) ³	≥100	N/cm	ISO 21809-1
Peel strength (110°C) ³	≥60	N/cm	ISO 21809-1
Peel strength (140°C) ³	≥30	N/cm	ISO 21809-1

* Data should not be used for specification work

¹ Karl Fischer-Titration

² DSC

³ 3 layer

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Other properties

Property	Typical value *	Unit	Test method
Particle size >400 µm	0-20	w%	ASTM D1921
Particle size < 100 µm	0-25	w%	ASTM D1921
Particle size 300-400 µm	0-25	w%	ASTM D1921
Particle size 100-300 µm	55-85	w%	ASTM D1921

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Processing techniques

The product can be applied by powder spray. Specific recommendations for processing conditions can be determined only when the application and type of equipment are known. Please contact your local Borealis representative for such particulars.

Packaging and storage

Borcoat BB127E-PW is supplied in 20 kg bags on 1100 kg pallets.

Borcoat BB127E-PW shall be stored indoors below 50°C in unopened original packaging in clean and dry environment. It is recommended to ensure proper stock rotation by using first in – first out principle. Following aforementioned conditions the material can be stored for a period of up to 36 months after production. However, caution shall be taken regarding the moisture level. It is recommended to measure the moisture after longer storage periods prior to processing.

The shelf-life of the product can be extended after Borealis has re-tested selected material properties and verified that the test results are still within the product specification.

Product compliance documents

Latest versions of product safety information sheets (PSIS), product safety data sheets (SDS) and other product liability documents are available in our website www.borealisgroup.com.

Sustainability aspects

Borealis is ever mindful of the impact of our products on the planet. We promote Design for Circularity (DfC) and Design for Recycling (DfR) to conserve natural resources and to reduce the environmental impact of products over their entire lifetime (including production, use phase and after phase). DfR helps ensure that material can be effectively recycled while maximizing the material performance efficiency. Further information on sustainability and Design for Recycling (DfR) can be found from our websites www.borealisgroup.com and www.borealiseverminds.com.

Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication; however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.