



Crestamould[®] B12R Sealer

Polyester-based sealing compound for polystyrene foam surfaces

Product Overview

Crestamould[®] B12R Sealer is a MEKP catalysed, brushable slightly thixotropic sealer designed to coat expanded and extruded polystyrene foams. This sealer acts as a chemical bridge and barrier between the polystyrene foam and either a laminate or a machinable polyester-based tooling paste such as Crestamould T27/T28. Its main use is for sealing of polystyrene foam blanks used in 5-axis plug and pattern work. It can also be used for architectural and arts applications when it is desirable to use a polyester over the polystyrene foam, replacing traditional latex and epoxy coatings. It is not to be used as a laminating resin.

General Properties

Colour	Light green
Density	1.00 g/cc (8.33 lbs/gallon)
Consistency	Liquid
Viscosity (RVF3, 2 rpm):	14,000 Cps
Thixotropic Index	2.0
Hardness 1/8", (24 hours)	Min. 80, Shore D

Catalysation

Catalyst:	DDM-9
Gel time (100 gram mass)	15 Minutes
Catalyst Level at 24°C (75°F)	2 %

Application

Crestamould® B12R Sealer should be applied by brush. Rollers will not get the sealer into the surface cells. Coverage is approx. 2.5m²/litre (100 sf/ gallon). It is important to spread the material thinly and avoid excess accumulation. Any excess will exotherm and melt the polystyrene. Allow 1.5 -2 hours between the application of the catalyzed Crestamould® B12R Sealer and subsequent lamination or spray-up. It works best on expanded and extruded polystyrene foams with a min. density of 30 kg/m³ (1.3 lb/ft³), or a min. compressive strength of 40 psi (0.27 N/mm²). Refer to chart below.

Mixing

Before using, thoroughly mix contents in the 19 litre (5 gallon) pail using a mechanical mixer. Mixing the litre (quart) can by hand is sufficient. DO NOT REMOVE ANY CRESTAMOULD B12R FROM CONTAINER BEFORE MIXING.

Storage

For maximum shelf life, store Crestamould® B12R Sealer in a cool, dry area, maintaining a temperature between 10°-20°C (50°-70°F). Avoid storing in heat or direct sunlight. Always allow Crestamould® B12R Sealer to reach shop temperatures before using. Periodically invert pails (store upside down) to prolong shelf life.

Polystyrene Foams Suitable for Sealer Application

Crestamould® B12R Sealer works best on expanded and extruded polystyrene foams with a min. density of 22 kg/m³ (1.3 lb/ft³), or a min. compressive strength of 40 psi (0.27 N/mm²). The table below provides more exact information - the mid-range foams are best suited. The lower densities may still be suitable but may show various level of attack on the foam surface. We recommend appropriate tests for the foams to be used.

Type	Product	Density		Compressive Strength		
		lb/ft ³	kg/m ³	psi	N/mm ²	
I	Expanded	0.90-1.14	14.4-18	25-30	0.17-0.20	Marginally suited
VIII	Expanded	1.15-1.34	18-22	32-38	0.22-0.26	
II	Expanded	1.35-1.79	22-29	40-50	0.27-0.34	
IX	Expanded	1.80-2.19	29-35	55-75	0.37-0.51	
IV	Extruded	1.55	25	25	0.17	
V	Extruded	3	48	100	0.68	
VI	Extruded	1.8	29	40	0.27	
VII	Extruded	2.2	35	60	0.41	Best suited
X	Extruded	1.3	21	15	0.10	Marginally suited
XII	Extruded	1.2	19	15	0.10	



Making a *positive* difference

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