

POLY ALIPHATIC Technical Data Sheet

Description and Application

POLY ALIPHATIC is a 100% solids, single component moisture curing polyurethane binder. The curing time is approximately 3 to 4 days, un-activated, at a temperature of 25°C and a relative humidity of 50%. If used at lower temperatures and humidity the cure time will be considerably extended. Use of 3% or more of ALIPHATIC ACTIVATOR 0613 is required to shorten cure times. POLY ALIPHATIC should only be used between the temperatures of 5° and 25°C. Primarily used for laid in situ bound EPDM screeded safety surfaces, POLY ALIPHATIC exhibits excellent adhesion to most rubber granulates and gives a strong performance in both tensile strength and durability. POLY ALIPHATIC possesses excellent UV resistance and will not discolour over time. Because of this it is used specifically for binding light coloured and pastel shades of EPDM, where colour retention is required.

Overview, Packaging and Storage

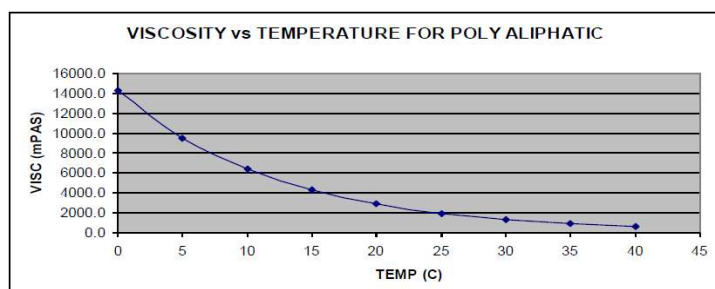
POLY ALIPHATIC is supplied in 220 kg steel drums and 25 kg plastic kegs. The product should be stored in dry conditions at a temperature of between 3 and 35°C. Avoid long term storage of partially used containers as contact of atmospheric moisture with the resin will result in skinning of the product. The shelf life of unopened containers stored under the recommended conditions is 12 months.



Resin Addition Rates for Wet Pour:	Base Layer	10%
	Wear Layer	20%
Resin Addition for Tile and Mat Manufacture:		5% - 25%

*Note that during the moisture curing process POLY ALIPHATIC will not discolour if exposed to strong UV.

Viscosity and Cure Profile



POLYTECH LIQUID POLYMERS LTD

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Registered in England & Wales No.3464515 VAT No. 880997069

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Technical Specification

Colour	Water White
Viscosity (Poise @ 25°)	15 - 30
NCO content (%)	9.5 - 12.5
Specific Gravity (@ 25°c)	1.1
Non Volatiles (%)	96
Cure Time (hrs @ 25°c and 50% RH)	Adjustable
Flash Point (°c)	>93
Tensile Strength* (MPa)	0.6 - 1.0
Elongation* (%)	80 - 120

*when cast at 20% with R30S EPDM

Health and Safety Information

For complete health and safety information please refer to the POLY Aliphatic SDS



Polytech Liquid Polymers - A Plixxent Company

From our modern manufacturing base in the UK, as well as distribution points globally, we supply flexible Polyurethane systems to a global user base

We export globally and our customers have installed our products in every corner of the world. Projects ranging from recreational and commercial, through to industrial flexible flooring solutions.

For more information on MRI Polytech flexible flooring systems visit:
www.mri-polytech.com
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