

CHROMOPLAST A-105 PE/1

Acrylic back up

Introduction

Chromoplast A-105PE/1 is pre-accelerated, medium reactive, low viscosity polyester resin.

Chromoplast A-105PE/1 can be used to bond to thermoformed cast acrylic and as a back-up reinforced resin for acrylic tubs and showers.

Formulation

Chromoplast A-105 PE/1 should be allowed to attain workshop temperature (18°C-20°C) before use. It needs only addition of a catalyst to start the curing reaction. The recommended catalyst is Catalyst M (or Butanox M50) which should be added at 1% or 2% into the resin.

Post curing

Satisfactory laminates for many applications can be made from Chromoplast A-105PE/1, by curing at workshop temperature (20°C). Some increase in properties may be obtained by post curing.

Characteristics of the liquid resin

Appearance	-	Clear, accelerated
Acid value	mgKOH/g	max. 30
Viscosity, 25°C Brookfield	mPa s	110-150
Volatile content	%	43-47
Shelf life in dark @20°C	months	6
Gel time@20°C*	min	8-12
Time to peak	min	20-30
Peak exotherm	°C	170-190
(100 g resin + 2% MEKP 50%)		

Cured resin properties*

Tensile strength	N/mm ²	50
Flexural strength	N/mm ²	90
Impact strength	KJ/m ²	1,5
HDT**(1.8 MPa)	°C	80
Hardness	-	40
Elongation at break	%	2,2
Water absorption	mg	45

*Curing Schedule-24 hours at 20°C, 3 hours at 80°C

** Curing Schedule-24 hours at 20°C, 5 hours at 80°C, 3 hours at 120°C

Storage

Chromoplast A-105PE/1 should be stored in the dark in suitable closed containers. It is recommended that the storage temperature should be less than 20°C, but should not exceed 25°C.

Packaging

Chromoplast A-105PE/1 is supplied in 225 kg drums, 1100 kg containers or in bulk by road tanker.

Health and Safety

Please see separate Safety Data Sheet.

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