

NCS PREGEL PA

NDS116/051

THIXOTROPIC ADDITIVE

DESCRIPTION

NCS PREGEL PA has been specially formulated for use as a thixotropic additive in polyester resins. NCS PREGEL PA is a pink, preaccelerated highly thixotropic paste which when used in polyester resin confers thixotropic properties for use in laminating or gelcoat applications. Resins with sufficient amounts of NCS PREGEL PA can be applied to vertical or inclined surfaces with minimal drainage. Being a highly thixotropic, clear paste, NCS PREGEL PA can be used in general bonding applications.

FEATURES	BENEFITS
Thixotropic	Eliminates drainage in polyester resins.
Preaccelerated	Does not adversely effect the cure of polyester resin.
Clear paste	Minimal discolouration in polyester resins.

OTHER VERSIONS

NCS PREGEL	Non accelerated version of NCS PREGEL PA
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TYPICAL LIQUID PROPERTIES

PROPERTY	SPECIFICATION	NCS TEST METHOD
Viscosity @ 25°C, mPa.s	2000 - 3000	6
Geltime @ 25°C, 1 php* BUTANOX M50, minutes	18 - 26	8
Liquid Appearance	Pinkish Paste	2
Thixotropic Test, mm	2 maximum	67

*php = parts per hundred paste, by mass

CURING CHARACTERISTICS

NCS PREGEL PA is supplied preaccelerated, needing only the addition of catalyst to start the curing reaction when used in bonding applications. NCS PREGEL PA has little effect on the geltime of resin formulations when used as a thixotropic additive.

The following formulation is recommended for NCS PREGEL PA used as a bonding paste at an ambient temperature of 25°C.

COMPONENT	Parts by Mass
NCS PREGEL PA	100
BUTANOX M50	1

The following formulation is recommended for NCS PREGEL used as a bonding paste at an ambient temperature of 25°C.

COMPONENT	Parts by Mass
NCS PREGEL	100
NCS ULTRACURE AC 9	4
BUTANOX M50	1

Curing should not be carried out at temperatures below 15°C. Ideally, the catalyst level should range between 1 and 2 parts per hundred paste.

A special range of bonding pastes are available from NCS Resins on request.

APPLICATION

The amount of NCS PREGEL PA used as a thixotropic additive in polyester resin should be just sufficient to overcome drainage, typically 10 parts per hundred resin. However, an excessive amount of NCS PREGEL PA used in a polyester resin can cause the viscosity to increase to such an extent that air bubbles become entrapped in the laminate or gelcoat and poor brushability or poor impregnation of the reinforcement can result.

STORAGE AND HANDLING

To ensure maximum stability and maintain optimum properties, polyester resin should be stored in closed containers, maintained below 25°C and away from heat sources and sunlight. All storage should conform to local fire and building codes. Drum stock should be kept to a reasonable minimum with first-in, first-out stock rotation.

Where bung-in-head containers are stored outside, it is recommended that these be stored in a horizontal position to avoid the ingress of water.

STANDARD PACKAGE

Non-returnable metal drums.
Bulk supplies can be delivered by road tanker.

MATERIAL SAFETY DATA SHEET

A Material Safety Data Sheet is available from your NCS Resins' representative. Make certain that you obtain a copy of this guide to the safe handling of unsaturated polyester resins and resin systems.

PLEASE READ AND UNDERSTAND THE MATERIAL SAFETY DATA SHEET BEFORE WORKING WITH THIS PRODUCT

WARNING: CARE MUST BE TAKEN TO AVOID DIRECT MIXING OF ANY ORGANIC PEROXIDE (CATALYST) WITH METAL SOAPS, AMINE OR ANY OTHER POLYMERISATION ACCELERATOR OR PROMOTER, AS VIOLENT DECOMPOSITION WILL RESULT!

NCS RESINS BRANCHES AT:

JOHANNESBURG / DURBAN / CAPE TOWN / PORT ELIZABETH