

Technical Information

NCS ULTRABOND 57 NAT PA

NDS075/412REV02

THIXOTROPIC ADDITIVE/BONDING PASTE

DESCRIPTION

NCS ULTRABOND 57 NAT PA has been specially formulated for use as a thixotropic additive in polyester resins. NCS ULTRABOND 57 NAT PA is a clear, 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 ULTRABOND 57 NAT PA can be applied to vertical or inclined surfaces with minimal drainage. Being a highly thixotropic, clear paste, NCS ULTRABOND 57 NAT 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.

TYPICAL LIQUID PROPERTIES

PROPERTY	SPECIFICATION	NCS TEST METHOD
Geltime @ 25°C, 1 php* BUTANOX M50, minutes	8 - 25	8
Liquid Appearance	Clear Paste	2
*php = parts per hundred paste, by mass		

The information herein is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. We request that customers inspect and test our products before use and satisfy themselves as to contents and suitability. Nothing herein shall constitute any other warranty expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental, or consequential damages. Our standard conditions of contract will apply to all sales

CURING CHARACTERISTICS

NCS ULTRABOND 57 NAT PA is supplied preaccelerated, needing only the addition of catalyst to start the curing reaction when used in bonding applications. NCS ULTRABOND 57 NAT PA has little effect on the geltime of resin formulations when used as a thixotropic additive.

The following formulation is recommended for NCS ULTRABOND 57 NAT PA used as a bonding paste at an ambient temperature of 25°C.

COMPONENT	Parts by Mass
NCS ULTRABOND 57 NAT PA	100
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 ULTRABOND 57 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 ULTRABOND 57 NAT 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.

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:

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