

TECHNICAL DATA SHEET

NOVACOTE NC-292-A with co-reactant CA-7970

DESCRIPTION

NOVACOTE NC-292-A with co-reactant CA-7970 is a solvent-based two-component polyester polyurethane adhesive.

PRODUCT PERFORMANCE

NOVACOTE NC-292-A + CA-7970 is used for lamination of printed or unprinted transparent, AlO_x/SiO_x coated and metallized structures consisting of PET-, BOPP-, CPP-, OPA-, CPA-, PE-films (slip agent content <500ppm ESA calculated on 70µm film) or aluminium foil. Laminates produced with **NOVACOTE NC-292-A + CA-7970** show high initial bonds, as well as high heat resistance after complete curing. Furthermore the laminates are resistant to pasteurization and boil-in-bag treatment. Transparent structures are resistant to sterilization and aggressive filling goods.

Suitability of printing inks, films, additives etc. must be tested by the user prior to the processing of **NOVACOTE NC-292-A + CA-7970**. In case of changes in the quality of one component these tests have to be repeated.

TYPICAL PRODUCT DATA

	NC-292-A	CA-7970
Type / chem. Character	NCO	OH
Solid content [%]	60 ± 1	not applicable
Viscosity @ 25°C	400 ± 150	21 ± 3 DIN 4mm
Solvent	ethyl acetate	-
Density @ 20°C [g/cm ³]	1,07	1,00
Appearance	clear	clear
Standard mixing ratio [Mass %]	100	5

PROCESSING

Diluents: Suitable solvents are urethane grades of ethyl acetate, MEK (H₂O <0,05%) or acetone (H₂O <0,1%)

Mixing instruction: At first **NOVACOTE NC-292-A** has to be diluted to the desired solid content. Co-reactant **CA-7970** has to be added slowly while mixture is stirred. A slightly hazy appearance after addition of the co-reactant is normal and harmless. Only co-reactants out of originally closed containers should be used. The following table indicates appr. viscosities at given solid content:

	Solid content [%]			
	30%	35%	40%	45%
NC-292-A [kg]	100	100	100	100
Diluent ethyl acetate [kg]	112	81	58	39
CA-7970 [kg]	5	5	5	5
Viscosity DIN-4-Cup @ 25°C [sec]	12	13	15	19

Pot life: The pot life of ready for use mixed adhesive in closed container is more than 12 hours.

Coating weight: Standard applications (dry): 2,5 – 4,0 g/m²
Higher demands (dry): 3,5 – 6,0 g/m²
(boil-in-bag, pasteurization)

Required coating weight of particular application has to be evaluated in specific trials by the end-user.

Drying: All drying conditions have to be adjusted to substrate, coating weight and machine speed. Unsuitable drying conditions may cause increased solvent retention.

Safety instruction: Contains monomeric isocyanates and solvents. Processing only when good ventilation available and special precautions are taken in handling (material safety data sheet).

CURING TIME

The curing reaction starts immediately after lamination. Rewind and slitting is possible after several hours. Best chemical resistance is reached after 7 to 10 days curing at room temperature. Storage at elevated temperatures will reduce curing time.

ADDITIONAL INFORMATION

STORAGE

NOVACOTE NC-292-A and **CA-7970** are highly flammable. The products should be stored at a dry and cool place. Guaranteed shelf life is 6 months in unopened, original containers.

FOODSTUFF LEGISLATION STATUS

The constituents of **NOVACOTE NC-292-A** and **CA-7970** are in accordance with the following regulations:

“Code of Federal Regulations” 21 §175.105 for food packaging materials
Directive 2002/72/EC of 6 August 2002 and amendments.

NOVACOTE NC-292-A and **CA-7970** are manufactured in accordance with guideline 94/62 and do fulfil the mentioned limit of < 100ppm for lead, cadmium, mercury and chromium (IV).

NOVACOTE NC-292-A and **CA-7970** do not contain BADGE, BFDGE or NOGE.

Detailed information regarding actual foodstuff legislation status is available upon request.

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Coim Deutschland GmbH
Novacote Flexpack Division
Schnackenburgallee 62
D-22525 Hamburg
Telefon: +49 40 85 31 03-0
Telefax: +49 40 85 31 03-69
Internet: www.coimgroup.com

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