



TECHNICAL DESCRIPTION

SEPTEMBER 2020

Cancels and replaces all previous editions

Andropol 37 AT-NV

Thixotroped unsaturated polyester resin

- Description:** It is thixotropic, accelerated, ISO/NPG based unsaturated polyester resin.
- Use:** Andropol 37 AT-NV is a high quality unsaturated polyester resin with very good mechanical properties. Applied for making of kitchen worktops, swimming pools, aqua-parks - glides, bath tubes, boats, yachts, automotive industry (car parts), tanks and other products which request high atmospheric resistance.
- Properties:** Andropol 37 AT-NV:
- Gives to the articles:
 - - Resistance to impact;
 - Water resistance ;
 - Light resistance;
 - Resistance to aging;
 - It is designed for spray and manual application;
 - Not flow applied on vertical surfaces;
 - Fast drying.
- Classifications:** Andropol 37 AT-NV correspond to type 1140 to DIN 16 964/2 and classified in group 3 according to DIN 18 820. Complies with requirements of EU legislation.

CHARACTERISTICS

Viscosity Brookfield at 20°C,
sp.3/5 rpm:
sp.3/50 rpm:
 (ISO 2555)

600-900 mPa.s

350-500 mPa.s

Thixotropic index: sp. 3, 5/50 rpm: (ASTM D 2196-05 (B))	1,5-2,0
Reactivity at 23°C: (100 g resin + 1,5 g MEKP-50)	
- gelling time	15-25 min
- hardening time (from gel time to Tmax)	16-26 min
- exothermic peak	min 170°C
(Test Method)	

OTHER DETAILS

Density: (BNS EN ISO 2811-1)	1,09 g/cm ³
Flash point, in covered pot : (BNS ISO 2719)	34°C

Mechanical Properties

Hardening conditions: 1.5 % MEKP-50
24 h at 23°C
Post-curing

INDEX	VALUE
Tensile strength: (BNS EN ISO 527-1,2)	approx 70 MPa
Flexural strength: (BNS EN ISO 178)	approx 110 MPa
HDT: (BNS EN ISO 75-2) (24h 23°C/ 5h 60°C/ 3h 90°C/	approx 80°C

Application:	Andropol 37 AT-NV has to be homogenized well before use. It is hardening with the following hardening system: to 1000 g of resin add 15 g hardener MEKP-50 (Butanox M-50), homogenize mixture well and after that use as intended. Pot life of the mixture is from 15 to 25 minutes and depends on the temperature of the resin, as the process of gelling accelerates additionally on temperature higher than 23°C, and the lower temperature (under 15°C) decreases the gelling time.
Cleaning of the tools:	Acetone, butyl acetate, ethyl acetate
Packaging:	In metal cans; metal barrels
Storage:	Store in tightly closed packaging in closed, dry and fire proof storage premises, with no access of direct sunlight at temperature up to 25°C. Prolonged storage can reduce the effect of the accelerator. An addition of 0,5-1,0% Co-1% may be necessary to restore the original pot life. Shelf life - 4 months from date of production in closed packaging.
Hygiene, safety work and ecology:	Refer to the Material Safety Data Sheet for further information on the safe storage, use and handling of Andropol 37 AT-NV. The Material Safety Data Sheet (MSDS) should always be read and understood thoroughly before handling the product, and adequate safety procedures should be followed.

The present technical description has the purpose to inform the clients on the quality of our product. The data herein is based on our present best knowledge. We invite our clients before work to check the quality of the product or its adaptation to the base and to make an experimental application. Our clients must be sure, that the present technical description hasn't been changed or replaced by a newer edition.
