

# TECHNICAL DATA SHEET

## Cold Seal Adhesive : Nano Seal- 2020

### **Description :**

Nano Seal-2020 is used for the production of cold sealable products.

Nano Seal- 2020 is a water based dispersion system developed for use in cold seal technology for flexible packaging applications. It is suitable for the manufacturing of food packaging materials.

Nano Seal-2020 must be applied on corona treated side of plain, pearlescent and metallised polypropylene.

### **Features :**

- Very good adhesion to flexible films.
- Formulated for Direct Food Contact applications.
- High Blocking Resistance .
- Low Foaming Tendency .
- Fast filling machine speeds possible.
- Good seal strength.
- Low odor.
- Improved moisture resistance in high humidity conditions.
- Improved drying characteristics and gravure runnability.
- Improved aged viscosity stability.
- Low propensity for gummy residue build-up on machine idlers.

### **Typical Characteristics :**

- Solid Content% : 55±1 %
- Viscosity : 20±3 sec ( DIN cup 4 , 25°C )
- Density : 1.03±0.1
- PH : 10 – 10.5
- Color : Milky white

## **Application**

- **Application Method:** Gravur
  - **Cleaning :** with water, Mek or Ethyl Acetate for dried film .
  - **Drying :** High Velocity air circulation at 90–100 ºC.
  - **Dry Film Weight :** 3–5 g/cm<sup>2</sup>
  - **Storage :** Free from dust, moisture, heat and light at 10–25 ºC.  
Keep material from freezing.  
Specified shelf life ( 6 months ).
  - **Precautions :** Avoid contact with copper, brass and bronze .
- The coated films must be stored in a place protected from light, dust and at a cool temperature.
- NanoSeal–2020 has to be stirred well before usage to obtain a homogeneous blend for proper drying and product performance .

## **Safety information :**

- \* NanoSeal–2020 contains some ammonia, which can damage the body if it comes in contact with it for a long time.
- \* Splashes of adhesive in the eyes or on the skin Should be washed with clean water.
- \* If ingestion happens do not induce vomiting, seek urgent advice from a physician.
- \* Inhalation of vapor should be treated by removing the subject to fresh air and medical attention should be called.

The Information provided herein, especially recommendations for the usage and the application of our products, is based upon our knowledge and experience. Due to different materials used as well as to varying working conditions beyond our control we strictly recommend to carry out intensive trials to test the suitability of our products with regard to the required processes and applications. We do not accept any liability with regard to the above information or with regard to any verbal recommendation, except for cases where we are liable of gross negligence or false intention.