

# SILICONE SOLUTIONS FOR SCREEN PRINTING



## ABOUT SCREEN PRINTING

In the printing industry, screen printing is a kind of stenciling method that involves printing ink through the stencils that are supported by a porous fabric mesh stretched across a frame called a screen.

Texts, logos and other images can all be formed by screen printing.

Screen printing allows us to make various prints that we could not have imagined.

## WHY HyperTEX® ACTIVE SILICONE INKS?

HyperTEX® Active silicone inks offer unique properties which make all kinds of fabrics functional against PVC and water based inks.

HyperTEX® Active Series are formulated silicone elastomer which do not contain any petroleum based products like PVC. Mechanical properties (elongation, softness, heat resistance, etc..) are superior to PVC. In short, the fabrics which printed with HyperTEX® Active Series are brighter, softer and mechanically stronger than other silicones thanks to its chemical content.

- Can be applied on elastic fabrics such as swim suits and sports wear
- Glass bead
- 3D effect with sharp edges

- 3D effect with oval edges
- Breathable printing
- Anti Slippery
- No Color Migration

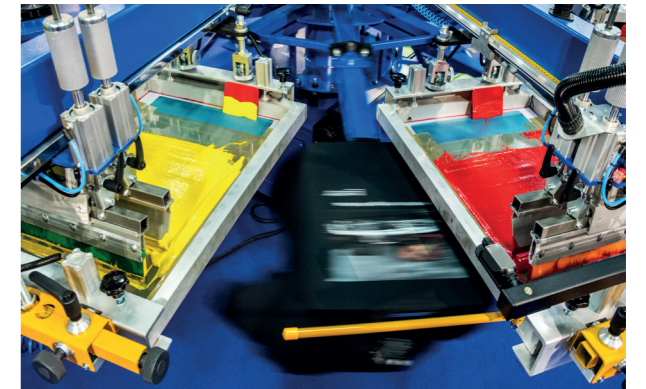
- Tooth brush effect
- Glossy Effect
- Suitable for CMYK
- Suitable for auto or manual printing

## HyperTEX® Active Series

HyperTEX® Active series are solvent-free, flowable, two component RTV silicone rubber.

### HyperTex® Active 224

HyperTEX® Active 224 is specially designed for both auto and manual screen printing. Thanks to its benefits, it perfectly meets the requirements and expectations of screen printing applications. HyperTEX® Active 224 is applicable for textile, beads and label printing. The product gives the superior adhesiveness to the fabric.



- Heat and Cold Resistance
- Superior Adhesiveness
- Excellent Glossy Appearance

### HyperTex® Active 226

HyperTEX® Active 226 is specially designed for both auto and manual screen printing. Thanks to its benefits, it perfectly meets the requirements and expectations of printing applications.

HyperTEX® Active 226 is applicable for textile printing, beads printing, label. The product gives the superior adhesiveness and stretchability to the fabric.



- Excellent Stretchability
- Excellent Physical Properties (Tear, tensile strenght etc..)
- High Viscosity

## HyperTEX® Active 202A

HyperTEX® Active 202A is specially designed for GLOSSY EFFECT manual or auto printing. Thanks to its benefits, it perfectly meets the requirements and expectations of printing applications.

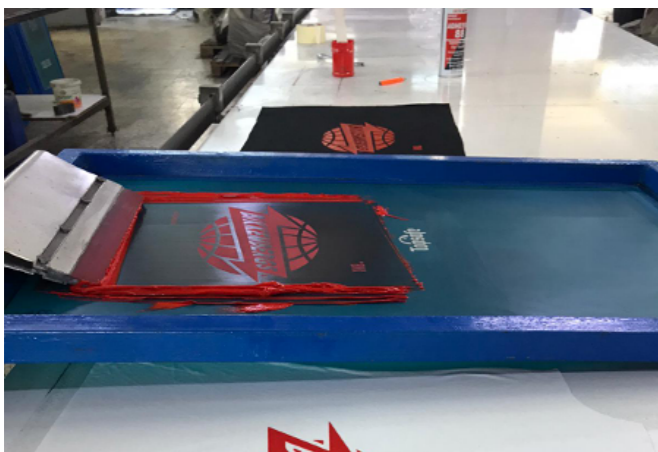
HyperTEX® Active 202A is a top coating silicone. The product gives high translucent, heat and cold resistance to the fabric.



- Excellent Flow Properties
- Non-solvent
- No Bubbling on Surface

### HyperTEX® Active silicone ink series can be applied almost all kinds of clothing

- T-Shirts
- Shirts
- Shorts
- Swim Suits
- Jackets
- Denim
- Undergarments
- Sweaters
- Sweat Shirts
- Gloves
- Uniforms
- Sleepwear



## Key Performance Features

**Environmental Friendly:** Does not contain any toxic components such as phthalate, formaldehyde, PVC or any solvent

**Excellent Durability:** Superior durability for washing even in the existence of enzyme or stone washing.

**Better Hand Feel:** No sticking surface, soft touch, and better hand feeling against the PVC.

**Heat Resistance:** Ironing can be applied, superior flame retardancy

**Adhesion:** Hydrophobic fabrics and glass beads.

**Curing Time:** It can be cured in 5 seconds with flash curing at 120°C

**HD Effect:** It is easy to get HD effect with sharp or oval edges

## Positive Effects On Production

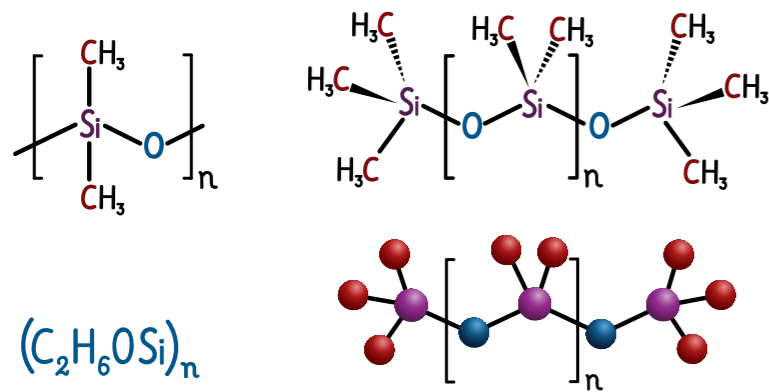
HyperTEX® Active series is a silicon ink series specially produced for screen printing applications and provide a suitable viscosity and thixotropy for screen printing. HyperTEX® Active can be used in various fabrics such as natural, synthetic and elastic.

- HyperTEX® Active Silicone ink series have proper viscosity for screen printing applications.
- The Pot life (drying time) of the HyperTEX® Active series is longer than 48 hours.
- HyperTEX® Active Silicone series can be cured at 120°C, so, there is no need for extra preparation.
- There is no oil bleeding even in synthetic fabrics because of its thixotropic properties.

## Better Solutions for a Better World

Plastics such as PVC have many additives and plasticizers, which give plastics flexibility, softness and other physical properties. For example, PVC contains phthalate plasticizers such as DEHP (Di-Ethylhexyl Phthalate), DINP (Di-Isononyl Phthalate), and they make plasticizers soft and used to provide softness. Phthalate plasticizers may cause health problem when in direct contact with body.

Besides all, Silicon has no harm to human health. Thus, silicone is used in medicine and foodstuffs. In addition, the high bonding energy of silicon with oxygen (Si-O) provides stability against degradation by UV radiation.



## About Latro

Latro has developed a high-quality service at formulating and supplying sustainable chemical raw materials and solutions. Our comprehensive solutions are served in an extensive spectrum of sectors, such as Textiles, Cosmetics, Agriculture, Silicone elastomers, and Industrial applications.

Latro offers technical support, new product development, and sufficient solution suggestions for pre and after-sales. The key factors that separate us from most of the other chemical companies are our chemistry know-how, technical logistics, client-oriented solutions, specialty products, product development studies, and attention we pay on nature via sustainability. With these assets, we set our target, higher not only providing the products but also eliminating the problems our customers can encounter.

To fulfill our commitment better we established "Wonderlab", a laboratory specialized in research and product development. This facility allows us to develop new formulation solutions as well as product characterizations. Wonderlab is also a laboratory where our customers can experiment with the products and formulations with us. Latro aims to invest further into research by supporting young researchers, acquiring new equipment, and providing laboratory experience to customers.

Latro offers a wide range of innovative and sustainable solutions for screen printing with silicone elastomer. We are supporting our customers by creating tailor-made formulations and making various performance tests in our application laboratory in order to support the marketing claims. Our main goal is to create value-added and cost-effective products by following the market trends.

# Latro

UNIQUE CHEMICAL SOLUTIONS

## CONTACT INFORMATION AND LOCATION

### Latro Kimya Head Office & Wonderlab

Mahmutbey Mah.  
Tasocagi Yolu Cad. No: 19/3  
Balance Gunesli D Blok  
Bagcilar 34218, Istanbul

Phone: +90 212 771 60 36  
Fax : +90 212 771 60 35

### Latro Kimya Warehouse

Akcaburgaz Mah. 1585 Sok.  
No: 2 TEM 34 1. Etap Kat: B1 No: 58  
Esenyurt 34522, Istanbul

E-mail: [info@latro.com.tr](mailto:info@latro.com.tr)  
[www.latro.com.tr](http://www.latro.com.tr)

PROCUSFOCUS 216 449 46 00

This information corresponds to the present state of our knowledge and is intended as a general description of our products and their possible applications. Latro makes no warranties, express or implied, as to the information's accuracy, adequacy, sufficiency or freedom from defect and assumes no liability in connection with any use of this information. Any user of this product is responsible for determining the suitability of Latro's products for its particular application. \*Nothing included in this information waives any of Latro's General Terms and Conditions of Sale, which control unless it agrees otherwise in writing. Any existing intellectual/industrial property rights must be observed. Due to possible changes in our products and applicable national and international regulations and laws, the status of our products could change. Material Safety Data Sheets providing safety precautions, that should be observed when handling or storing Latro's products, are available upon request and are provided in compliance with applicable law. You should obtain and review the applicable Material Safety Data Sheet information before handling any of these products. For additional information, please contact Latro.