



Gayatri Polychem Private Ltd., (AN ISO 9001:2008 CERTIFIED ORGANISATION)

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PRODUCT INFORMATION

GP 21R 6040 Emulsion

Characteristics

GP 21R-6040 -Emulsion is a non fugitive and primarily non-ionic emulsion containing 60% dimethyl silicone fluid. It is an effective and widely used release agent for rubber.

This emulsion creates a thin but highly effective parting film It does not carbonise or gum even at temperature which would quickly destroy organic mould release agents, does not build up on moulds, and does not discolour or damage rubber or plastics

GP 21R-6040-Emulsion gives an excellent surface finish to moulded parts. The reason for this characteristic is that the average particle size of **GP 21R-6040-Emulsion** is 0.5 microns. This fine particle size also contributes to the excellent release properties of **GP 21R-6040-Emulsion** and the stability of both diluted and undiluted emulsion.

Shelf Life

Not less than 12 months if stored between 5 °C to 25 °C. Tends to cream on long storage. But the cream may be well dispersed by simple rolling of drum.

Packing

GP 21R-6040-Emulsion is supplied in 20 Kg, 50 Kg, and 200 Kg, 1Mt IBC containers.

Typical Properties

Per cent silicone	60
Particle size in microns	0.5
Colour	Milky White
Thinner	Water
pH	6.5-8.5
Emulsifier Type	Non-ionic

Applications

- Printing industry:** It is used as releasing and shining agent in printing industry on heat set press
- Textiles**
 - Diluted is used as Lubricant for hosiery borders. The use of this emulsion has greatly reduced the number of runs in fine hosiery during Manufacturing.
 - Yarn Lubricant** The addition of one percent of GP 21R-6040-Emulsion to the trough solution reduces needles wear and yarn breakage
 - Treatment for glass fabric used as exhaust filters serviceable up to 400 °F
- Closures:** Release agents for rubber stoppers and rubber gaskets used on screw tops and bungs.
- Glass and Ceramics**
 - Properly applied and cured onto glass and ceramics, GP 21R-6040-Emulsion forms an invisible, durable silicone film that imparts dedicated characteristics to the treated surface.
 - It minimizes the adhesion of other materials to the surface, thus improving free draining characteristics and facilitates cleaning. It increases water repellence, improves retention of high surface resistivity under high



Release Agents Gayatri Polychem Silicone

humidity conditions

3 Wire and Cable lubricant: GP 21R-6040-Emulsion does not support fungus growth. Hence, the appearance of stored cable is not damaged by fungi, which feed on paraffin

4 Pharmaceutical: in vials or bottles for costly pharmaceuticals free drainage means less product is needed to ensure a given dosage.

7 General

a) Lubricants and anti-sticking agent for extended rubber parts. Prevents newly coiled extrusions from sticking together and improves surface appearance.

b) Release coating for conveyors. Prevents sticking of products to conveyors, even those operating at high temperatures in vials or bottles for costly pharmaceuticals free drainage means that less product is needed to ensure a given dosage

Benefits :**Effect of Hard Water**

The use of hard water will not affect the stability of the Emulsion. However, the minerals in the hard water will Gradually build up on the mould surfaces

Rust Inhibitor

GP 21R-6040-Emulsion is formulated with a small amount of sodium nitrate so that it will not cause rusting. This amount of sodium nitrate is sufficient in product -water ratios up to 1:1 more dilute solution, the same degree of inhibition can be obtained by adding 0.1 pound of sodium nitrate for each 100 parts of water. This Should not be taken to imply that GP 21R-6040-Emulsion can be used as rust preventive on metal

Diluting and applying

GP 21R-6040-Emulsion can be readily diluted to any desired concentration up to 200 parts water to one part emulsion. The diluted emulsion can be sprayed Brushed or wiped onto moulds.

Silicone laboratory Samples (SLM) is development products. Therefore, we cannot at present give any binding assurance of constant properties or of continuous supplies in future

The data presented in this leaflet are in accordance with the present state of Our knowledge, but do not absolve the user from carefully checking all Supplies Immediately on receipt. We reserve the right to alter product Contents within the scope of technical progress or new developments. The Recommendations made in this leaflet should be checked by preliminary Trials because of conditions during processing over which we have no Control, especially where other companies' raw materials are also being Used. The recommendations do not absolve the user from the obligation of Investigating the possibility of infringement of third parties' rights and, if Necessary, clarifying the position. Recommendations for use do not Constitute a warranty, either express or implied, of the fitness or suitability of The product for a particular purpose.

MUMBAI 2012

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