# ELASTOSIL® COLOR PASTE PT RED RAL 3000 F

ELASTOSIL®

## Silicone Rubber Additives

ELASTOSIL® COLOR PASTE PT RED RAL 3000 F is a ready-to-use masterbatch comprising specific pigments and reactive silicone polymers which are commonly used to produce ELASTOSIL® high-consistency silicone rubber.
This ensures a homogeneous covulcanization of the color paste without significant impairment of the physical properties (e. g. hardness) and without migration as it may be observed for systems based on silicone oil.

## Properties

ELASTOSIL® COLOR PASTE PT RED RAL 3000 F is ready-to-use and can be easily incorporated on an open roll mill or kneader. ELASTOSIL® Color Pastes PT can be blended with each other to achieve the desired color shade.
The colors have generally a good resistance to sunlight, UV and hot air. The resistance should be checked for individual cases, especially for long term applications. If the dosage recommendations are followed, the mechanical properties of the colored vulcanizates will not be significantly impaired.

### Specific features

- Additive
- BfR compliant
- FDA compliant
- Medical

## Technical data

### General Characteristics

**Color Cure Conditions: 1 % in R plus 4001/40, 15 min / 165 °C in press**
**Color Measurement Conditions: CIE 1976 D65, 10°, d/8**

| Property | Condition | Value | Method |
|---|---|---|---|
| Appearance | - | Flame red, similar to RAL 3000 | - |
| Density | - | 1.14 g/cm$^3$ | DIN EN ISO 1183-1 A |
| Coloristical properties | L* Value | 38 | DIN 5033 |
| Coloristical properties | a* Value | 42 | DIN 5033 |
| Coloristical properties | b* Value | 25 | DIN 5033 |

These figures are only intended as a guide and should not be used in preparing specifications.



## Application details

ELASTOSIL® COLOR PASTE PT RED RAL 3000 F has been developed particularly for coloring ELASTOSIL® R and ELASTOSIL® R plus high consistency silicone rubber.
ELASTOSIL® COLOR PASTE PT RED RAL 3000 F may be used for coloring silicone parts intended for sensitive applications and complying with the “Recommendation XV. Silicones" and “IX. Pigments for coloring plastics" of the BfR and FDA Regulation CFR 21 § 177.2600 "Rubber Articles Intended for Repeated Use" under observance of any given limitations on extractable and volatile substances. Please see the actual Product Compliance Sheet of this product and/or the separate Food Contact Statement for detailed information about food contact including information about any limitation in view of dosage and/or condition of use that may apply for this product.
A statement regarding biocompatibility according to USP<88> class VI and selected tests of ISO 10993 is available on request. Please note that biocompatibility testing has been performed for post-cured HCR test specimen containing 2 % color paste.

## Processing

ELASTOSIL® COLOR PASTE PT RED RAL 3000 F is compatible with Curing Agents C1, C6, and E for peroxide curing ELASTOSIL® R grades and is also fully compatible with addition curing ELASTOSIL® R plus grades.
Incorporation into ELASTOSIL® R and ELASTOSIL® R plus grades is best performed on an open roll mill. Preferably, the curing agent is incorporated at the same time. The color paste is homogeneously dispersed when the rubber stock has a uniform color. Customers may produce other colors by mixing the pigment pastes. Suggestions for formulations can be made on request.
A dosage of 1 % ELASTOSIL® COLOR PASTE PT is generally recommended to obtain opaque vulcanisates. For the manufacture of thin-walled parts and for rubber grades containing non-reinforcing fillers (e.g. quartz, diatomaceous earth) or colored additives (e.g. ELASTOSIL® AUX Stabilizer R, ELASTOSIL® AUX Batch SB 2) an increase of the dosage to 2 - 3 % will be useful. The concentration should be kept at a minimum. In individual cases an excess of color paste may slow down the curing characteristics.

## Packaging and storage

### Packaging

This product is available in 20 kg cardboard packaging and 1kg tin.

### Storage

Please store the cardboard boxes in a dry and cool place. Already opened boxes should be closed again to avoid any contamination.
The 'Best use before end' date of each batch is shown on the product label.
Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable.
In this case however, the properties required for the intended use must be checked for quality assurance reasons.

## Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site http://www.wacker.com.

## QR Code ELASTOSIL® COLOR PASTE PT RED RAL 3000 F

### For technical, quality or product safety questions, please contact:

**Wacker Chemie AG,** Hanns-Seidel-Platz 4, 81737 Munich, Germany
productinformation@wacker.com, www.wacker.com