

# RTV C204 + 5% Catalyst 81B

## 1. DESCRIPTION

**RTV C204 + 5% Catalyst 81B** is a two part silicone elastomer which cures at room temperature, to a soft translucent flexible elastic material.

## 2. ADVANTAGES

- High elongation and flexibility
- Good tear strength
- Easily pigmented
- Application by brush using HTC clear
- Precise reproduction
- Low shrinkage

## 3. APPLICATIONS

May be used for moulds or membranes where a high degree of flexibility and translucency is required. Special effects where a translucent material is required (e.g. skin effects, moving parts etc). Can also be used in conjunction with our Silicone Paint Base systems.

## 4. CHARACTERISTICS

### a) CONSTITUENTS:

	RTV C204	Catalyst 81B	Catalyst 10B
Appearance	Viscous Liquid	Liquid	Liquid
Colour	Transparent	Clear	Blue
Specific Gravity / gcm <sup>-3</sup> @20 °C	1.08	1.00	1.00
Viscosity / cps	18,000	30	30

### b) MIXING:

RTV C204	Pot Life/mins	Demould/hours	Full Cure @ 20°C
Catalyst 81B at 5%	90-120	16-24	7 days
Catalyst 10B at 10%	90-120	16-24	7 days

### c) AFTER CROSSLINKING

Shore Hardness/A [ASTM D2 240 2mm film]	10
Tensile Strength/Mpa [DIN 53504]	2.5
Elongation at break/1% [DIN 53504]	465
Tear Strength KN/m [ASTMS D624 Notched Die B]	8.0
Linear Shrinkage	0.1

\*\*\* RTV C204 when catalysed with 10B will give a much softer material at about 30 shore 00 \*\*\*

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

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## d) THIXOTROPIC ADDITIVE

**RTV C204 + 5% Catalyst 81B** may be applied by brush, by the addition of Additive HTC Clear. Add in small amounts until you have achieved the required consistency.

<b>RTV C204</b>	100 parts
<b>Catalyst 81B</b>	5 parts
<b>Additive HTC Clear</b>	2-3 parts

## e) SOFTENING OF RTV C204

Silicone softener can be added to RTV C204 up to 30% w/w. It is often blended with Silicone Fluid 50cs 50:50 with silicone softener in order to achieve a given effect. The addition of Silicone Fluid 50 cs alone is often unacceptable due to leaching of the oil from the cured rubber.

The user must evaluate actual blend ratios as requirements vary in applications.

Where more than 5% softening mixture is added, additional catalyst or the use of Accelerator No.1 may be required to achieve the expected working time.

## 5. PACKING

**RTV C204 + 5% Catalyst 81B** is available in 5.25kg and 21kg kits.

## 6. HEALTH & SAFETY

*(Refer to Health & Safety Data Sheet)*

Handling and mixing of **RTV C204 + 5% Catalyst 81B** require the following precautions:

- i. Wear gloves and goggles.
- ii. Do not eat, drink or smoke.
- iii. Avoid swallowing, skin or eye contact.
- iv. If contact does occur, wash with clean water immediately and in case of eye contact, consult a doctor.

## 7. SHELF LIFE

**RTV C204 + 5% Catalyst 81B** have a minimum shelf life of six months when stored in the original containers at temperatures between 18 and 25°C.

**Note: If allowed to freeze the RTV will be spoilt. If allowed to heat to excessive temperatures, gel times will be substantially shortened.**

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