

WACKER

CREATING TOMORROW'S SOLUTIONS

ELASTOSIL®

MOLD MAKING | SPECIAL-EFFECTS MOLDING

**FORM HAS NO LIMITS –
ELASTOSIL® FX
SILICONE RUBBER
FOR SPECIAL-EFFECTS
MOLDING**

EFFECTS HAVE NO LIMITS – CREATE YOUR SPECIAL EFFECTS WITH ELASTOSIL® FX

ELASTOSIL® FX platinum-cure silicone rubbers are used to create realistic skin effects in film, television and theater.

Use the range of base rubbers, gels and additives to reach astonishing results for:

- FX make-up / lifecasting
- Masks
- Body parts/prosthetic effects
- Wounds and scars

Advantages of Silicone Elastomers

- Safe to use on skin (no skin irritation)
- Very soft; excellent elongation allows for facial expressions and speaking when used for masks / life molding
- Outstanding reproduction detail



PRODUCT OVERVIEW

ELASTOSIL® FX BASE PRODUCTS

Our silicone base range consists of four products covering a broad hardness spectrum from gel-like (and ready-to-use) to Shore A 28.

ELASTOSIL® FX 30 Gel, FX 10 and FX 20 can be used for:

- General prosthetic effects
- Life molding
- Body parts
- Wounds
- Masks and fat make-up

The higher-shore-hardness material ELASTOSIL® FX 28 finds its main applications in:

- Body parts
- Decoration prototypes and
- Production molds

Technical Data*								
Product	Hardness, Shore	Mixing Ratio	Curing Type	Color	Pot Life at 23 °C	Curing Time at 23 °C	Viscosity, Brookfield (mPa•s)	Product
ELASTOSIL® FX 30 Gel	00 30	1:1 easy to use	Platinum-cure	Translucent	8–12 min	Approx. 45 min	5,000	ELASTOSIL® FX 30 Gel
ELASTOSIL® FX 10	A 10	1:1 easy to use	Platinum-cure	Translucent	8–12 min	Approx. 45 min	5,000	ELASTOSIL® FX 10
ELASTOSIL® FX 20	A 20	1:1 easy to use	Platinum-cure	Translucent	8–12 min	Approx. 45 min	6,000	ELASTOSIL® FX 20
ELASTOSIL® FX 28	A 28	1:1 easy to use	Platinum-cure	Translucent	10–15 min	< 60 min	10,000	ELASTOSIL® FX 28

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

ELASTOSIL® FX SOFTENER

Our base products can be adjusted to the level of hardness you need by adding ELASTOSIL® FX Softener. Have a look at the tables below showing examples for two of our base products to see which hardness you can reach at which level of tackiness (all without oil on the surface).

Calculation Example Starting with ELASTOSIL® FX 20 and Adding a Certain Percentage [%] of Softener												
FX Softener [%]	0	5	10	15	20	25	30	35	40	45	50	
Shore A	20	17	13	10	8	6	5	3	2	---	---	Shore A
Shore 00	---	---	---	---	50	45	43	34	25	20	18	Shore 00
Tackiness	-	-	-	-	-	(-)	(-)	(+)	+	++	++	Tackiness

Calculation Example Starting with ELASTOSIL® FX 10 and Adding a Certain Percentage [%] of Softener												
FX Softener [%]	0	5	10	15	20	25	30	35	40	45	50	FX Softener [%]
Shore A	10	8	7	6	3	3	2	1	---	---	---	Shore A
Shore 00	---	50	48	38	33	30	25	18	13	11	0	Shore 00
Tackiness	-	-	-	-	(-)	(-)	(+)	+	++	++	+++	Tackiness

- non-tacky
 (+) slight
 (-) very slight
 (+) slight
 + more
 ++ strong
 +++ very strong

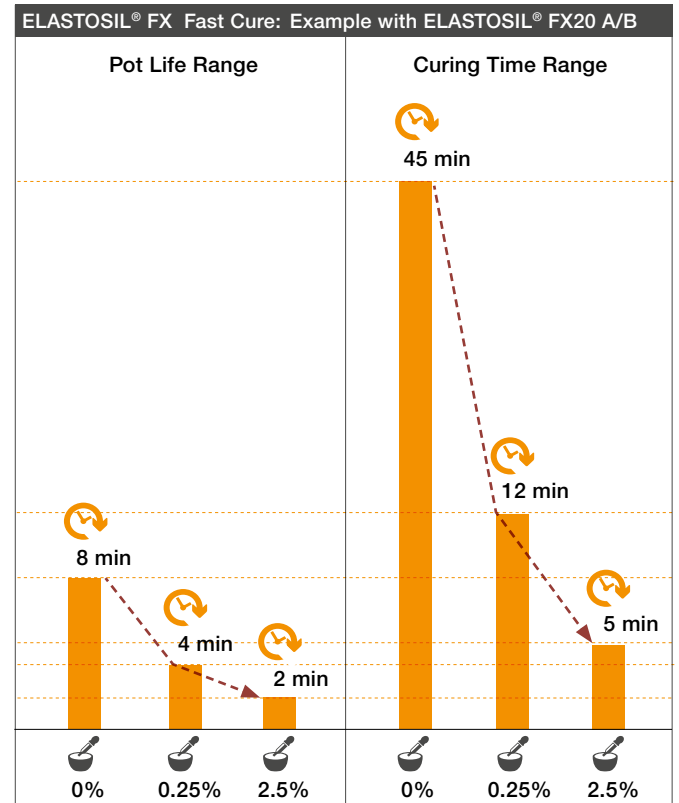
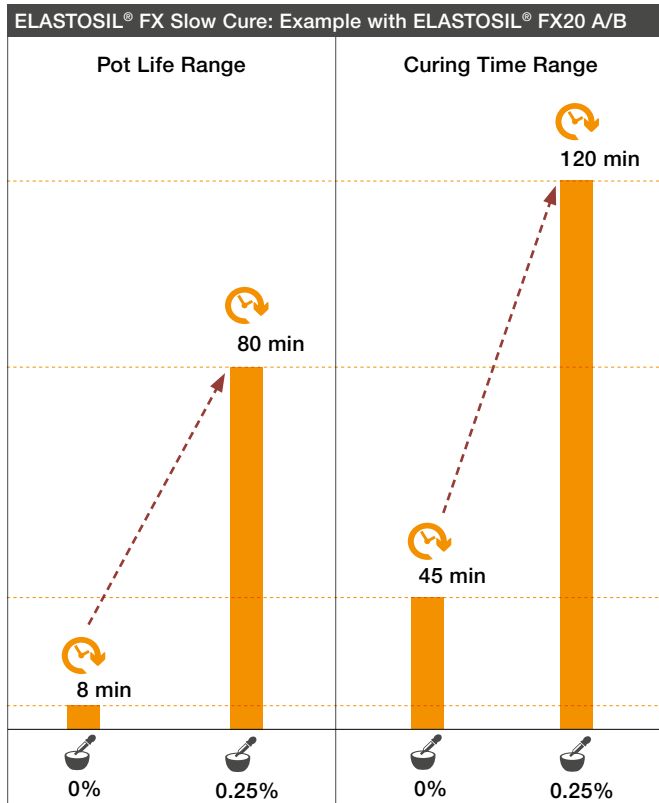
Calculation example for [%]: A/B + x%, e.g. 100 g A + 100 g B + 20 g Softener

ADJUSTING THE PROCESSING BEHAVIOR TO SUIT YOUR NEEDS WITH ELASTOSIL® FX ADDITIVES

Besides ELASTOSIL® FX Softener, WACKER offers more products that allow you to tailor our silicones to your individual needs.

Important Additives

- ELASTOSIL® FX Fast Cure: speed up the curing time according to your needs
- ELASTOSIL® FX Slow Cure: prolong pot life according to your needs
- ELASTOSIL® FX Thixo: adjust the "flow" behavior of the material – thin, thicker or paste-like
- ELASTOSIL® A07: RTV-1 adhesive to repair torn molds



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HIGH-QUALITY MATERIALS FROM THE LEADING GERMAN SILICONE MANUFACTURER

Benefits of ELASTOSIL® FX

- Compatible with all standard materials for make-up artists
- Inhibition resistance in contact with all common materials used for special FX (colors, etc.)
- Good long term stability of the mechanical properties
- Curing within less than 1 hr (RT)
- Adjustable hardness with ELASTOSIL® FX Softener
- No oily surface at very low hardness
- 1:1 systems, easy to mix and use
- Excellent translucency
- Very good mechanical properties at low hardness
- Adjustable level of stickiness with ELASTOSIL® FX Softener
- Low viscosity
- Excellent self-deaeration properties
- Adjustable viscosity / flowability (good flow <-> paste-like)



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