

TECHNICAL DATA SHEET

3D Freedom

Application:

3D Freedom Platinum Cure silicone could be mainly used for making concrete stones, orthopaedic sole, heel cups, wax moulds, PU moulds, resin moulds, gypsum casting, candle moulding and chocolate, candy and any other FDA food product mould making, prototyping etc.

Colour	Translucent
Viscosity (Mpa.s)	7000 ±2000
Operating time (Mins@25C)	20-40mins
Curing time (Hrs@25C)	3-5hrs
Hardness (Shore A°)	25±2
Tensile-strength(Mpa)	≥6.3
Tear-strength (kN/m)	≥24
Elongation-break(%)	≥500
Retractility(%) (Shrinkage)	≤0.1
Mix Ratio	1:1

Advantages:

- Amazing fluidity and easy to operate
- Platinum-based, food-grade silicone (environmental, odorless and nontoxic)
- Delicate design available
- Mixing ration: 1:1 for easy mixing ration
- Easy de-molding
- Excellent tension and tear strength
- High performance in duplication
- almost nil shrinkage below 0.1
- Excellent resistance to weather, temperature, aging, acid & age-proofing.
- High resistance to high temperature and aging(resist -60 to 250°C)

Operation Instructions:

1. Clear the model and tools totally before operation to prevent cure inhibition.
2. Weigh the two parts correctly by electronic weight in two separate containers.
3. Mix the two parts in 1:1 and stir part A and part B evenly in 2-3 minutes.
4. Get the mixture for vacuum-pumping for de-air the bubble in around 2-3 minutes. (If there is no vacuum machine, pour the mixture carefully and slowly down the side of the mould frame so that less bubbles caused)
5. Enclose the product (the original model) with four plastic plates or wooden plates.
6. Clean your products and brush a layer of release agent (detergent or soap water) on your product.
7. Pour the vacuumed mixture into the model frame from the side of the mould frame.

Notice :

As 3D Freedom is platinum cure silicone, which is very easy to cause cure inhibition, so please do remember to thoroughly clean the model and tools before operation. Avoid the liquid silicone contact or mix with the following material, otherwise the silicone won't be cured:

1. Liquid condensation silicone (condensation silicone not completely cured or organic tin compounds)
2. Sulphur, sulphide and sulphur rubber materials.
3. Amine compounds as well as contains the amine materials.

SHELF LIFE:

8-10 months when stored under 24°C in original unopened packages.