

# IGS 420

RTV 2-Part Pair glass sealant

**DAEHEUNG CHEMICAL**

**IGS 420 is a 2 component silicone sealant. It is a high-modulus, high-strength neutral curing silicone sealant for secondary sealing of insulating glass units.**

## 1. Uses

- Secondary sealant in insulating glass units for residential construction.

## 2. Characteristics

- 2-Component type and it allows easy adjustment of cure rate.
- Non-slump
- Excellent Ozone resistance, UV-resistant, durable product
- The excellent workability at low temperatures (winter)
- Curing time is fast
- Excellent adhesion to glass and aluminum spacer

## 3. Physical properties

### 1) Property before curing

Property	Unit	IGS 420A (Base)	IGS 420B (Curing agent)
Color	-	White	Black
Viscosity	cps	Paste	Paste
Specific gravity	-	1.48	1.04
Mixing ratio	Weight ratio	12.5 : 1 (Base A : Curing agent B)	
Working time	min	15	

Tested at 23°C, 50% relative humidity

### 2)Property after curing

Property	Unit	IGS 420
Tack Free Time(TFT)	min	18
Hardness	Shore A	30
Tensile strength	N/mm <sup>2</sup>	1.60
Elongation	%	260
Color	-	Black

Tested at 7day\*23°C, 50% relative humidity

## 4. How to use

- **Joint**

Check the joint that is considered the seal and repair of the construction materials that draw the plan.

- **Clean and dry**

Remove oil, dust, impurities that is obstructed the sealant adhesion.

- **Mixing**

IGS420 insulating glass sealant should be mixed and applied using suitable continuous mixing equipment employing air operating pumps or servo driven gear pumps with adjustable mix ratio control perform satisfactorily(Mixing ratio 12.5 : 1 by Weight)

- ※ Mixed Notes

\* When workability controlled by the mixing ratio will be corrected by referring to the proper mixing ratio, please contact our Technical Department.

When working with the improper mixing ratio Draws attention, it may cause symptoms such as affect the physical properties of cured product failure, film softening.

\* Do not force the adhesive portion made until a complete cure.

\* For tools and nozzle is used to clean such as toluene or MEK.

\* When the hardener and the mixture is exposed, so be careful not to cure when exposed to air for a long time becomes longer and the downtime of the mixer (pump) since the cured sealant is discharged from the internal subject only to prevent my hose cured.

\* When first applied or replace the product in mixer (pump) it is required to ensure that the mix is good.  
(Confirmation Test Method: Pot life, butterfly test, adhesion test)

- **Sealant filling**

It must be filled with sealant in the pot life and should not to be enough to fill every corner gaps or bubbles occur.

- **Tooling**

After the filling operation make the surface finishing before the sealant has cured.

So that the sealant can be pushed completely onto the deposition surface gives the sealant surface at a certain angle in the intersection or corner of the slide several times with a spatula.

- **Cleaning**

When cleaning the surrounding area after the completion of work, be careful not to influence the deposition material and a sealant.

- **Curing**

Curing the cure it should be protected from dust and other contaminants before it is fully cured and be careful not prohibit contact with the physical shocks.

※ Curable products are seasonal differences, each time for a complete cure of the mixture ratio after mixed sealant will require more than 48 hours at 23 °C and 50% relative humidity conditions.

## **5. Storage and precautions**

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- IGS 420 is not available in the following conditions:

Region that paint is required to sealant.

For continuous high pressure.

For continuous immersion in water or in below-grade applications

TECHNICAL DATA SHEET – IGS 420

To wet surface (on frost-laden or damp surfaces).

In totally airtight spaces.

- Considerations for storage and work

Store in a cool dry place out of direct sunlight.

Keep in place that child's hand does not touch and never ingest or do not touch in skin.

Don't work at neighborhood of heat or fire.

Store in original unopened containers in a dry place. Temperature should not exceed

25 °C for prolonged periods. (Recommended at 5 ~ 25 °C)

## 6. Packing

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- Base : 189 L (279.72kg) Drum
- Curing agent : 18.9 L (19.65kg)Pail
- Shelf Life(1year in unbroken package under dry and cool condition at 5~25°C)

Please contact us for further information or see Material Safety Data Sheet (MSDS) for this product.

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