

## BC 690 H Polyol BC 6534 Isocyanate

### Description:-

BC 690H Polyol with BC 6534 Isocyanate is a high build, solvent free and fast curing two component, high performance waterproof membrane. This elastomeric system is designed for commercial construction, infrastructure and general waterproofing of concrete, wood or metal surfaces. Designed to be applied to a wide variety of substrates at high or low ambient temperatures, its fast reaction time produces a sprayed film which is touch dry in seconds. The system is designed for use through 1:1 volumetric spray equipment.

### Typical Component Properties:

	Units	BC 690H Polyol	BC 6534 Isocyanate	Test Method
Appearance@25°C		Grey liquid	Amber liquid	
Viscosityat25°C	cps	350-650	700-1300	ASTMD4287
SpecificGravity@25°C	g/cm3	1.01-1.03	1.11-1.13	ASTMD1475

### Recommended Process Conditions:

	Units	Values
BC 690H Polyol	pbw	0.91
BC 6534 Isocyanate	pbw	1
BC 690H Polyol	pbv	1
BC 6534 Isocyanate	pbv	1
Processing Temperature	°C	Refer to BCI Technical Service Department
Cure Cycle	Hours	24-48 at room temperature to reach full cure

### Typical Reaction Characteristics:-

	Units	Limits
Gel time (100gms@25°C)	Sec	25-35
Tack free time	Min	5
Pot life	Sec	2-4
Final hardness	days	4

Values refer to tests conducted using a high pressure machine processed according to "Recommended Process Conditions". These are typical values and should not be construed as specifications.



### Typical Polymer Properties:

These items are provided as general information only:

Shore Hardness	°A	87	ASTM D2240 /ISO868
Tensile Strength	MPa	15	ASTM D412   ISO527 2.5mmthick
100%Modulus	MPa	5.5	ISO527type5 @2.5mmthick
Elongationat Break	%	500	ASTM D412 / ISO527type5@ 2.5mmthick
Angle Tear Strength	N/mm	50	ISO34
Nicked Crescent Tear Strength)	N/mm	50	ASTMD624
Density	g/cm3	0.95	BS903PtA1
Cold Flex Temperature	°C	-40	BS2782Meth150B
Adhesion to Primed steel	MPa	<13	ASTMD4541
Adhesion to primed concrete	MPa	>3	(Substrate failure occurred) ASTMD4541

### Handling and Storage :

	Units	BC 690 POLYOL	BC 6534 Isocyanate
Storage temperature	°C	15-25	15-25
Storage stability/Shelf life (1)	months	6	6

### Packing:

BC 690 H POLYOL – 225 KGS BC 6 354 ISOCYANATE – 200 KGS

### Precautions:

The use of this two-component system requires special precautions. Please refer to the material safety datasheet before using. Avoid inhalation of the vapor and contact with skin and eyes. Working areas should be well ventilated with fresh air.

Use protective gloves and glasses in case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap. During spray application, wear suitable respiratory equipment.

### Safety Conditions:

SDS Sheets are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. SDS Sheets are updated regularly, therefore, please request and review the most current MSD sheet before handling or using any product. These are available from the nearest BCI sales office C690 polyol under the influence of suitable epoxy anticorrosive primer shall provide service life up 25years without any signs of degradation or structural deformation.

The Technical specification information and recommendation given one based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product Building chemistry industry reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of Building chemistry industry no guarantee and or responsibility is assumed on the performance of work completion executed with use of our products.

### **Building Chemistry Industry**

2<sup>nd</sup> Industrial Area Dammam .Kingdom of Saudi Arabia.

Email: [info@bcisaudi.com](mailto:info@bcisaudi.com) Website: [www.bcisaudi.com](http://www.bcisaudi.com)

