

# DONCRETE 207

## POLYUREA BASED JOINT SEALANT

### Polyurea Based Joint Sealant

#### Product Detail

Polyurea based sealant is formed from an isocyanate reacting with a multifunctional amine. It is also possible to make so called 'hybrid' system in which the isocyanate is reacted with a mixture of hydroxyl and amino groups. Polyurea adhesive also leads to new bonding possibilities where they can be used like a spot weld and there is a technique possible where parts are preassembled and the adhesive is injected into the bond line through preformed grooves.

#### Product Properties

- **Doncrete-207** is a single component polyurea based elastomeric sealant
- It can cure under atmospheric humidity
- Primeless application and good bond strength
- Good weathering and UV resistance
- Single component hence it is very easy to apply
- It is available in choice of colors
- Highly elastic
- Good in Tear resistance
- Confirms to ISO 11600 Type F class 25 LM
- Confirms to ASTM C920 Type S Grade NS class 25
- CE Marking Class 25 LM
- Conforming to ASTM-D-575

#### Areas of Application

- **Doncrete 207** can be recommended for Building Construction segment
- **Doncrete 207** can be recommended for bonding with wood, concrete, glass, terra cotta, stone, tiles, etc
- **Doncrete 207** bonding with different type of Plastics like PVC, ABS, PMMA etc
- **Doncrete 207** concrete repairs, construction joint, expansion joint

#### Technical Data Sheet

Characteristic Unit	Value*	Comments
Density	1,15 ± 0,02	At 20° C Temperature ASTM-D-792
Sagging	mm 3	As per ISO 7390
Application Temp	° C +5 to +80	
Skin Formation Time hour	5 to 10	At 23° C and 50% RH
Cure Time mm/24hour	>2	At 23° C and 50% RH
Shore A Hardness	60	Internal Method IT-20 after ISO 868 – 3 sec
Modulus at 100%	Mpa 0.4	ISO 8331
Elongation at Break	% 800	ISO 8331/ASTM-D-638
Temperature resistance	° C -40° to +80°	
MAF	% 25	ASTM C 719 & ISO 9047
UV resistance	Good	
Tear Resistance	Pli 375	ASTM-624
Tensile Strength	Mpa <40	
VOC-Content	% 0	ASTM-1259
Solid Content	% 100	ASTM-2697
Pullout Strength N/mm <sup>2</sup>	> 4 Concrete >5 Steel >2 PVC, Wood, Glass, ABS	ASTM-4541
Water Absorption	% NIL	DIN-1048
Flash Point	F 340° F	ASTM-E-119/ASTM-D-93
Joint Dimension	Min. 5-50mm	
Ratio of Width to Depth	2:1	

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### Safety Advice

Please take notice of the safety information and advice given on the packaging labels, safety information sheets and general application advice.

### Application Notes

#### Joint Preparation

The substrate for the application of **Doncrete-207** should be free from any unsound substances, oil, dust, grease, vegetations etc. All the old sealants if any should be removed completely. Cleaning should be done by any mechanical mean to achieve a sound surface. If the surface is porous then it should be brushed with mechanical brush so that all the impurity will be removed for better adhesion. The joint width should be kept uniform throughout the section. Before application of the **Doncrete 207** the joint the residual moisture should be less than 4%.

#### Joint Filler

For Joint Filling Backer Rod can be recommended as per joint width and depth. While filling the Backer rod into the joint's should be taken that the backer rod should be packed tightly in the joint so that it can provide suitable non-movement able cushion for the sealant throughout the joint. During choosing of the bond backer care should be taken so that it will not bond with the sealant. If there is any chance that the backer rod can be bonded with Pu sealant then in that condition Bond breaker can be recommended before application of sealant. The joint depth must be limited to approx. 50% of the width, however it must be at least 10 mm as per DIN 18540.

#### Priming

Normally **Doncrete-207** does not require any primer because it provides better adhesion with almost all type of building materials recommended for Building constructions.

#### Application

**Doncrete-207** is available in ready to use single component sausage. Then load the Sausage in to pneumatic sealant gun. Then suitable nozzle will be fixed for easy application in the joints. During application through pneumatic Sealant gun the working pressure should be 4 – 6 bar and the application should be void and bubble free. Then after application of **Doncrete-207** the sealant can be leveled or smoothen by help of sealant leveling tool. Once the sausage protection has been opened for application, the entire sausage should be completely in a single go. Otherwise sealant will be cured with in 24 hrs inside the sausage only. Application of **Doncrete-207** should stopped immediately if the Surface and ambient temperature will go below +5<sup>0</sup> C

#### Notice

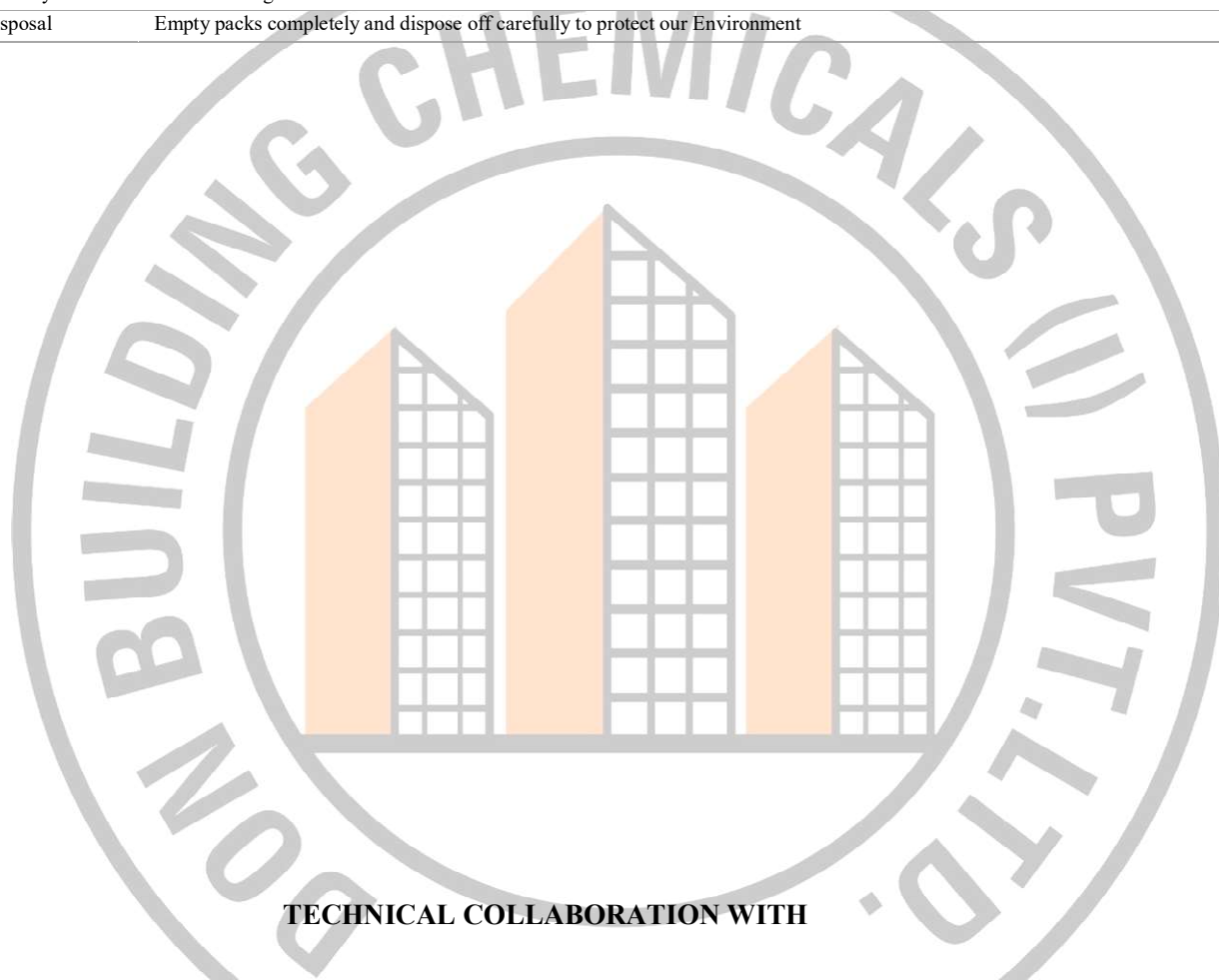
Application of **Doncrete 207** should be done if the temperature in between +5<sup>0</sup> C to +45<sup>0</sup> C. During the curing period of the sealant avoid any contamination of Dust, Alcohols, ammonia or any foreign materials. Application of sealant should be avoided in bituminous surfaces or any oil contaminated surfaces. Recommendation of **Doncrete- 207** should be avoided for the areas containing permanent water bodies.

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## Product Characteristics for Doncrete -207

Type of Product	Thixotropic
Color	Available in Choice of colours
Shelf Life	24 Months from date of Manufacture if stored in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Storage Temp should be +5 <sup>0</sup> C to +45 <sup>0</sup> C
Delivery	600 ml sausages
Disposal	Empty packs completely and dispose off carefully to protect our Environment



TECHNICAL COLLABORATION WITH



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