

Urochem 280

SEMI-RIGID '80 SHORE A' POLYURETHANE JOINT SEALANT

DESCRIPTION

Urochem 280 is a twin pack pourable or gunable PU compound designed to be used as a joint filler in floors where movement is limited. Due to its good compressive properties, it helps reinforce the joint arises against the effect of wheeled traffic. It exhibits good resistance to cleaning solutions, mild acids, alkalis, and oils.

PRODUCT APPLICATION

- As reinforcing joint filler for low movement joints in floors designed to handle heavy wheeled traffic.
- In new floors, installation should only commence after a minimum of 28 days of curing.

NB. before shrinkage of the concrete has ceased or temperatures have stabilised, the use of a temporary sealant is highly recommended.

SURFACE PREPARATION

- All surfaces must be clean, sound, and dry. Remove all loose material and ensure that there is no contamination from oils, greases, curing compounds etc.
- Blast clean steel surfaces to at least SA 2.5 and apply a coat of a suitable anti-corrosive primer. **Joint faces must be parallel.**

MIXING

- **Urochem 280** is supplied in a two-part kit, base, and activator in separate tins.
- Transfer the total quantity of activator into the base component and mix thoroughly using a slow speed electric drill fitted with a flat blade stirrer.
- Scrape down the sides of the can and the base and remix until the colour is uniform

and free from streaks.

- Thorough mixing is essential and should take 5 to 10 minutes.

APPLICATION

- **The joint depth should be a minimum of 50mm.**
- The depth of the joint should be controlled by using a compacted layer of dry 5mm silica sand and the joint is then filled with the thoroughly blended **Urochem 280** to the full depth of the joint by either pouring or gunning using a long barrel gun.
- As a flush finish is required overfill with the compound to create a raised surface. Check an hour or so after the original application to ensure that some of the jointing material has not seeped away and top up as required.
- The excess material should be shaved or ground flush the next day.
- Staining of the areas adjacent to the joint can occur and should be allowed for.
- **Important – The sealant MUST be supported from below.**
- No priming is required.

CLEANING

Clean all equipment immediately after use with **Urochem 901**. Once the sealant has cured, it may only be removed mechanically.

SAFETY

Contains organic solvents which are flammable. Do not use in confined spaces. Ensure adequate ventilation and the absence of any ignition source. Wear protective clothing. In case of eye contact wash well with water and obtain medical advice.

Please refer to product MSDS for further information.



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CHEMICAL RESISTANCE

Chemical:	Result
Acetic Acid (20 %)	I
Acetone	NR
Aluminium Chloride	I
Aluminium sulfate	I
Aluminum sulfide	R
Ammonia, anhydrous	R*
Ammonium hydroxide	R
Amonium thiocyanide	I
Barium hydroxide	R
Benzene	NR
Borax	R
Boric Acid	R
Butane	R
Calcium bisulfite	R
Calcium chloride	R
Calcium hydroxide	R
Calcium hypochlorite (5%)	NR*
Carbon dioxide	R
Carbon monoxide	R
Carbon Tetrachloride	NR
Castor oil	R
Chlorine gas (dry)	NR*
Chlorine gas (wet)	NR
Chromic acid (10-50%)	NR
Copper chloride	A
Copper nitrate	I
Copper sulfate	R
Cottonseed oil	R
Cyclohexane	R
Ethyl acetate	NR
Ethyl alcohol	NR
Ethylene glycol	I
Ferric chloride	I
Ferric nitrate	I
Ferrous chloride	I
Ferrous sulfate	I
Formaldehyde (37%)	NR
Formic acid	NR
Gasoline	I
Glue	R
Glycerin	R
n-Hexane (50 °C)	I
Hydraulic oils	I
Hydrochloric acid (20%)	I
Hydrochloric acid (37%)	NR
Hydrocyanic acid	I
Hydrogen	R
Hydrogen Peroxide (90%)	R*
Isooctane (79 °C)	I
Isopropyl ether	I
Kerosene	I
Lacquer solvents	NR*
Linseed oil	I
Lubricating oils	I

Chemical:	Result
Magnesium chloride	R
Magnesium hydroxide	R
Mercury	R
Methyl Alcohol	NR
Methyl ethyl ketone	NR
Methyl pyrrolidine	NR
Mineral oil	R
Naptha	I
Napthalene	I
Nickel salts	NR
Nitric acid (10%)	NR
Oleic acid	I
Palmitic acid	R
Perchloroethylene	NR
Phenol	NR
Phosphoric acid (10-70%)	R
Phosphoric acid (85%)	NR
Potassium cyanide	I
Potassim hydroxide	I
SAE #10 oil (70 °C)	R
Sea water	R
Sea water	I
SKYDROL 500	NR
Soap	R
Sodium cyanide	I
Sodium hydroxide (20%)	R
Sodium hydroxide (46.5%)	I
Sodium hypochlorite (20%)	NR
Sodium hypochlorite (5%)	NR
Soybean oil	I
Stearic acid	R
Sulfur dioxide (liquid)	R*
Sulfur dioxide (gas)	R*
Sulfur trioxide	R*
Sulfuric acid (5-10%)	NR
Sulfuric acid (10-50%)	NR
Sulfuric acid (50-80%)	NR
Sulfurous acid	NR
Tannic acid (10%)	R
Tartaric acid	R
Tin salts	I
Titanium salts	I
Toluene	NR
Trichloroethylene	NR
Tricresyl phosphate	I
Trisodium phosphate	R
Tung oil	I
Turpentine	NR
Water (48 °C)	R
Water (100 °C)	NR
Xylene	NR

R = Compatible, I = Intermediate, NR = Not recommended
 * = Outcome suspected. No test performed



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TECHNICAL DATA SHEET

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TYPICAL PROPERTIES – AS PER UROCHEM QC

The below properties are based on in-house testing methodologies.

Mixing Ratio	Two component – mix as supplied – Do not part mix
Pot Life	20 Min @ 25°C
Practical cure	48 Hrs @ 25°C
Full Cure	7 Days
Colour	Grey – Colours available on order
Hardness	± 70 to 90 Shore A
Movement accommodation	± 5%
Chemical resistance	Mild acids, alkalis, fuel, oils and salt solutions
Theoretical coverage	8m ² / Lt
Shelf Life	12 Months, depending on storage conditions
Application Temp.	5 to 35°C
Service Temp.	-25 to 90°C
Pack Size	2 Lt and 4 Lt Kits
Cleaning	Urochem 901
Storage	Store in a cool dry place

MATERIAL USAGE ESTIMATING GUIDE

(No allowance made for wastage)

		Joint width in mm									
		6	8	10	12	15	20	25	30	35	40
Joint depth in mm	6	27	20,8	16,6	13,8						
	8		15,6	12,5	10,42	8,3					
	10			10	8,3	6,6	5				
	12				6,9	5,5	4,2	3,3			
	15					4,4	3,3	2,6	2,2		
	20						2,5	2	1,6	1,4	1,2
	25							1,6	1,3	1,1	1
	30								1,1	0,9	0,8
	35									0,8	0,7
	40										0,6
Lm per Litre, excluding wastage											

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