

## DATA SHEET

### 520 520-195M POLYURETHANE

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V1-03/07/2017

520 is a single component tar extended polyurethane which reacts with atmospheric moisture to give a tough elastomeric coating. This coating is ideally suited for most waterproofing applications.

#### **SPECIFICATIONS:**

Viscosity at 25°C	: ± 76 000 cPs (Thixotropic)
Total Solids Content	: ±91%
Specific Gravity at 25°C	: ± 1.33
Texture	: Smooth and lump free
Cure - Tack free (1 mm)	: 16 - 24 hours ) dependent on
Through Cure	: 24 - 48 hours) temperature & humidity.

#### **SURFACE PREPARATION:**

All surfaces must be dry, clean, sound and properly cured. Remove all loose material mechanically by grinding or grit blasting. Blowholes and other surface irregularities should be filled with D603ABR.

#### **PRIMER :**

In extreme circumstances, some surfaces may require a primer coat.

**Concrete substrates:** Prime with 101 (Epoxy).

**Metal substrates** should be thoroughly cleaned and degreased with water-soluble brush cleaner before they are mechanically abraded or grit blasted and primed with 504. For any other surfaces, contact Coatings, for specifications on surface preparation and primer.

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#### **APPLICATION :**

520 can be applied by brush, roller or squeegee. If thinning is required, use D708 Flow Agent. A dry film thickness of 1.2 - 1.5 mm is recommended. Allow to cure for 24 hours between coats. Spreading rate is approximately 1.5 litre per square metre for a dry film thickness of 1.2 mm. The film should be built up in 2 to 3 coats to reach the required dry film thickness. The coating may be reinforced by overlaying and impregnating Polypropylene Scrim.

The drying time is highly dependent on humidity and temperature: The higher these conditions, the quicker the cure. If ambient temperatures are low, the film can take up to 48 hours to become totally tack free.

Clean equipment with D701 Brush Cleaner before 520 has cured. Reseal tins when not in use and store overnight in upside down position. It is recommended to use the entire product contents once the container has been opened.

#### **STORAGE AND STABILITY :**

520 is an isocyanate and will react with moisture generating carbon dioxide. This contact with moisture results first in an increase in viscosity and eventually in gelling and/or skin formation. Therefore the containers should be stored with the seals intact and opened containers used first. The reaction with moisture/water can lead to dangerous build up of pressure in the tins. Partially used containers must be tightly re-sealed after use to prevent ingress of moisture. It is recommended that these tins be purged with dry air or nitrogen. Empty tins should not be closed and for safety reasons a hole should be made in the bottom of the container. Sealed, unused containers should be stored in a cool environment, preferably below 25°C to prevent an undue increase in viscosity. 520 contains flammable solvents and should be stored in a cool well-ventilated area. 520 has a storage life of 6 months from date of delivery in unopened containers when stored at normal in-door ambient conditions (20 - 25°C).

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#### **SAFETY AND HANDLING :**

520 contains carcinogenic tar compounds and flammable solvent. Vapours produced when applying the material present a health hazard to the respiratory organs. Contact with the skin and inhalation of fumes must be strictly avoided. The product should only be applied in well-ventilated areas and protective clothing should be worn during the application. The usual precautions applicable to handling flammable materials should be followed. Remove all sources of ignition and do not smoke when using the product.

For further details, see Material Safety Data Sheet for the usual precautions (available in detail) to be followed when handling and applying isocyanates.

**The technical data furnished is obtained from controlled laboratory tests under ideal application conditions. No guarantee of any performance characteristic is therefore given or implied and we do not hold ourselves responsible for any consequential damage of whatsoever nature that may arise from use of our products. In the event of a proven fault our liability will be limited to the replacement of the product only. It is the users' responsibility to confirm the currency of product data sheets.**