

# M-12

**M-12** is a slow curing extremely flexible 100% polyurea coating. M-12 was originally developed for use in the medical and recreational industries, but because of its excellent toughness has expanded its usage to the packaging industry where a soft grippy coating is beneficial.

### Typical Physical Properties

<b>WET</b>																
Solids																
By Weight	100%															
By Volume	100%															
VOC	0.0 lbs/gal															
Weight/gallon	9 lbs combined															
Coverage	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Thickness</th> <th style="text-align: left;">Area</th> <th style="text-align: left;">Usage</th> </tr> </thead> <tbody> <tr> <td>30 mil (1/32")</td> <td>1 sq/ft</td> <td>0.15 lbs</td> </tr> <tr> <td>60 mil (1/16")</td> <td>1 sq/ft</td> <td>0.32 lbs</td> </tr> <tr> <td>90 mil (3/32")</td> <td>1 sq/ft</td> <td>0.40 lbs</td> </tr> <tr> <td>120 mil (1/8")</td> <td>1 sq/ft</td> <td>0.58 lbs</td> </tr> </tbody> </table>	Thickness	Area	Usage	30 mil (1/32")	1 sq/ft	0.15 lbs	60 mil (1/16")	1 sq/ft	0.32 lbs	90 mil (3/32")	1 sq/ft	0.40 lbs	120 mil (1/8")	1 sq/ft	0.58 lbs
Thickness	Area	Usage														
30 mil (1/32")	1 sq/ft	0.15 lbs														
60 mil (1/16")	1 sq/ft	0.32 lbs														
90 mil (3/32")	1 sq/ft	0.40 lbs														
120 mil (1/8")	1 sq/ft	0.58 lbs														
Viscosity																
A Component (Isocyanate)	800-1000 s/cps @ 25° C															
B Component (Amine polymer)	600-800 s/cps @ 25° C															
Cure Times																
Gel	15 seconds															
Tack Free	7 minutes															
Post Cure	24 hours															
Recoat	Within 2-4 hours															
Shelf life	6 months															
Clean up solvent	Xylene, MEK, Isopropyl alcohol, Methyl Pryolidone															
Thinner	Never Recommended															
<b>CURED</b>																
Stress/tensile strength	1500 psi															
Elongation @ 25° C (77o F)	650-700%															
Hardness	40-50 Shore A															
100% Modulus	150/80 psi															
Tear Strength Ply	568 PLI															
Thermal Shock	-65° F with no effect															
Impact Notched	65-85 in-lbs./in.															

The InstaCote M-12 Polyurea product can be ordered in different colors. Contact the InstaCote office for availability.

InstaCote, Inc.  
 160 C Lavoy Road  
 Erie, Michigan, USA 48133  
 Phone (734) 847-5260 Fax (734) 847-9008  
 E-mail rick.reinbolt@instacote.com  
 www.instacote.com