

Acrylite MCU Natural Sheen

Moisture Curing Urethane Resin Solution in Xylene

INTRODUCTION

Acrylite MCU Natural Sheen is a moisture-curing polyurethane resin based on Toluene di-isocyanate supplied 20% solids in xylene.

USES

Acrylite MCU Natural Sheen is used in a wide range of applications where colour stability is not critical to give economical fast-drying, hard wearing coatings.

Acrylite MCU Natural Sheen is typically applied as a ready for use penetrative sealer/primer particularly for use on concrete and block paving.

TYPICAL PROPERTIES

Non-volatile content	20%
Viscosity (25°C)	<30mPa.s
Colour (Gardner)	0 - 2
Specific Gravity (25/25°C)	0.90
Flash Point (Abel)	24°C
NCO Content	1.3%
Free isocyanate monomer	<0.1%

HARDNESS DEVELOPMENT

Film tested on glass - 0.1mm wet thickness, 20°C, 60% RH.

Touch dry	1 hour
Tack-free	2 ½ hours
Hard	4 hours
1 day	29)
3 days	36) Sward
1 week	36) Hardness
1 month	36)

FINAL PHYSICAL PROPERTIES

Elongation at break	90%
Abrasion Resistance (Taber) Wheel CS17/1000g load/1000 rev	100mg loss

APPLICATION

Surfaces must be clean and dry. Extreme temperatures are to be avoided. Recommended temperature is 10°C – 25°C.

Acrylite MCU Natural Sheen is cured by atmospheric moisture. Carbon dioxide gas is released during the cure and this normally penetrates through the film. If the film is applied too thickly, or if the substrate is damp, gassing within the coating may occur weakening the film and giving it white appearance.

Application is normally by brush or roller. In order to achieve the necessary level of gloss and wear several coats may be applied. Re-coating can take place as soon as the surface is tack free, but should not be delayed much beyond 24 hours as intercoat adhesion problems may occur.

Block Paving Sealers

On new standard block paving the recommended addition rate is around 2.0-2.5 m²/litre to ensure good joint stabilisation. A second coat of around 4m²/litre may be required to give superior stain resistance. It is important that the jointing sand is dry before application. Sealer is normally applied after 8 weeks.

Acrylite MCU Natural Sheen can also be applied to refurbished block paving after 2 weeks. The recommended application rate is 4m²/litre. This can be applied several times to get the desired result.

Concrete Sealers

Application of Acrylite MCU Natural Sheen on fresh concrete is not recommended.

Acrylite MCU Natural Sheen is Applied at a rate of 4m²/litre

Dense, smooth concrete must be opened by scarifying, grinding or sand blasting (acid etching should be treated with caution, it may weaken the surface by demineralisation).

All soiling should be removed using a suitable method and the surface must be dry and free from residues prior to application.

Wood and Board

Application rates for wood and board are similar to those for concrete. The significant difference between wood and concrete is that the coating will raise the grain of wood. If a snag-free surface for flooring, furniture or fittings is required, it may be necessary to rub down again after the first coat has dried.

Other Substrates

Acrylite MCU Natural Sheen is not recommended for application on to glossy substrates such as tiles, glass or metal. When applying to previously painted surfaces, all matter not fully bonded to the substrate must be removed. Test small areas of the remaining painted surface to see that the Acrylite MCU Natural Sheen will not cause lifting, wrinkling or bubbling. If any of these occur, the paint must be removed. If the coating is not attacked, sand the remaining area to dullness and clean thoroughly.

HEALTH AND SAFETY

Always wear protective clothing, gloves and goggles. No Smoking. Avoid Sparks from electrical equipment. Wear a fresh air mask in confined areas.

Acrylite MCU Natural Sheen is a solution of an isocyanate prepolymer in xylene which gives off harmful, flammable fumes

For more detailed advice please refer to the safety data sheet.

STORAGE STABILITY

Store out of direct sunlight in a humidity-controlled atmosphere, at 5-25°C. Once opened moisture (including moist air) will initiate the eventual cure of Acrylite MCU Natural Sheen, even

if resealed. Wherever possible store in original unopened containers until needed.

Shelf Life

Twelve months from date of manufacture in unopened containers.

RELATED MATERIALS

Acrylite MCU Natural Sheen is a similar resin dissolved in a high flash solvent instead of xylene

Note: Recommendations are given in this data sheet, in good faith, to assist users with the application of products for various purposes.

However, users must undertake their own trials to establish suitability as no liability can be accepted by Blackjack Surface Technology Limited should materials or methods prove to be unsuitable for such purposes.