# A-30

**Manufactured by Adeka Corporation**
**Tokyo, Japan**
**Imported by OCM, Inc.**
**Chicago, IL.**

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| | Properties (cured material) |
|---|---|
| Hardness | A30 |
| Tensile Strength | 5.0 MPa |
| Elongation | 1000% |
| Change of Volume | 200% (3) |
| Specific Gravity | 1.04 |
| | Properties (liquid) |
| Viscosity (MPa.x/77 (F). | Resin \| Catalyst<br>2000~3000 \| 300~800 |
| Mixing Ratio (resin:catalyst) | 15:1 |
| Pot life 50% RH (70~75 deg.F.) | 1~2 Hours |
| Cure time 50% RH (70~75 deg.F.) | 12~18 Hours |
| **Property values are representative values and not specification values** | |

## GENERAL DESCRIPTION:

ADEKA ULTRASEAL® A-30 is a two-component liquid hydrophilic (water swelling) waterstop.

**Packaging: (2 components - 15:1 ratio) :**

**A-30 Resin 20 Liter (5.3 gallon) pail**
**Net - 15 kg (14.28 liters - 3.77 gallons)**
**A-30 Hardener 1 Liter (1.06 quart) can**
**Net - 1 kg (0.92 liters - 0.97 quarts)**
**Total Net Resin + Catalyst = 15.2 Liters = 4.0 Gallons**

## BASIC USE:

For use as a waterstop in steel, plastic or composite sheet pile interlocks. Adeka A-30 is ideally suited for preventing water migration through sheet pile interlocks due to its ability to expand up to 3 times by volume when exposed to water.

## BASIC INSTALLATION:

**Measuring and Mixing:**
A-30 is a 15:1 ratio two-component material. **IMPORTANT** measure the 15:1 ratio carefully and mix thoroughly. The material may not cure due to incomplete mixing. Don't mix more than you can use. 2 quarts of resin will require 4.25 ounces of hardener. Or another example 7.5 quarts of resin will require 0.5 quarts of hardener. **POT LIFE is approximately 2 hours!**

## MATERIALS ON HAND LIST:

* Plastic buckets (see photo) approximately 4 gallon size for mixing -
* Measuring bucket marked at 7.5 quarts (1/2 of the resin - or appropriate measure for quantity needed).
* Measuring container marked at 0.5 quarts (1/2 of the hardener - or appropriate measure for quantity needed).)
* Drill and mixing paddle
* Containers for pouring A-30 into opening (Coffee cans, plastic containers etc)
* Insulating foam, backer rod, sealant or similar to seal end of interlock
* Ruler for checking depth of A-30
* Disposable paint stirring sticks to scrape remaining resin into mixing container
* Suitable gloves and clothes (A-30 is difficult to remove from clothing)

**READ MSDS FOR PRECAUTIONS**

## PREPARING SHEET PILE INTERLOCKS:

Level sheet pile in the horizontal position with the open socket exposed for filling. Thoroughly clean interlock. Remove any oil, dirt, loose rust or debris by using wire brush or power brush. Complete cleaning by blowing with compressed air. Seal the open ends of the interlock.


Use expanding foam or similar to seal interlock ends as shown in this photo. Sheet pile must be level.


If the pile is not level from end to end (long piles have a slight curve), place small dam of Adeka P-201 every 5~10 feet to help control thickness of A-30 bead.

## APPLICATION:

Pour A-30 in the female socket (non - leading side). **IMPORTANT – SHEET PILE MUST BE LEVEL. LEVEL MUST BE MAINTAINED UNTIL A-30 HAS TIME TO CURE.** Apply appropriate amount in the interlock. **More is not always better**! The most efficient thickness is slightly less then the measured gap when the male / female interlocks are fully extended. (See photo) Rule of thumb – thickness of A-30 should be about 60% of gap width. For example if the measured gap is 1/8", the thickness of the A-30 should be slightly less than 1/8".

Use a small brush or spatula to help spread the A-30. Measure thickness carefully. Determine the volume required for that length of interlock. You can treat remaining piles by calculated volume if desired however keep checking thickness periodically. The correct thickness of A-30 is important. The amount of A-30 required will vary depending on type of sheet pile. Check with your local representative for recommended coverage.

Treat center or common interlock of paired piles by placing small wedge to hold interlock open. Pour A-30 into open area. The A-30 will find its way into the interlock. Ends must be plugged and sheet pile must be level.

Protect sheet pile from premature exposure to moisture prior to driving.

## CURING:

Sheet piles must remain level during the application and curing process. Curing time will vary with temperature and bead size. A-30 will bond to the sheet pile and cure to a cloudy, translucent rubber like material. Do not move or drive sheet piles until A-30 has cured.

**A-30 CURE TIME IN HOURS**

(approximate not specification)

| Temperature Degrees F. | Curing Time Hours |
|---|---|
| 0 | 72 |
| 10 | 48 |
| 20 | 45 |
| 30 | 28 |
| 40 | 18 |
| 50 | 15 |
| 60 | 14 |

Curing time is dependent on environmental conditions and thickness of A-30. Your curing time may vary significantly from above values. Check curing stage before moving sheet piles.

## DRIVING:

Brush the interlock with soapy water when the pile is being picked up to drive. This will help lubricate the interlock. Once driving has started and the pile has hit water (ground water - standing water), the pile must reach its final depth within 2 hours.

Driving Direction - Piles must be driven with the untreated interlock leading. Drive treated interlock over untreated interlock.

For additional information:

(800) 999-3959 or visit http://www.adeka.com

**ADEKA ULTRASEAL A-30**

**best and most cost effective sheet pile waterstop**.