

2K Hardener, 2K Verharder, 2K Härter,  
2K Durcisseur, 2K Endurecedor

MS Hardener, MS Verharder, MS Härter,  
MS Durcisseur, MS Endurecedor

Uni Thinner, Uni Verdunner, Uni Verdünner,  
Uni Diluant, Uni Diluyente

| °C  |       |       |       |       |        |        |       |       |         |         |         |         | °F   |
|-----|-------|-------|-------|-------|--------|--------|-------|-------|---------|---------|---------|---------|------|
| 10  | 47-20 | 47-20 |       |       |        |        |       |       | 1-141   | 1-141   |         |         | 50   |
| 15  | 47-20 | 47-30 |       |       | 47-35  | 47-35  |       |       | 1-141   | 1-141   | 1-151   |         | 59   |
|     | 47-30 | 47-40 | 47-50 |       | 47-440 | 47-440 | 47-55 |       |         |         |         |         |      |
|     | 47-40 |       |       |       | 47-460 | 47-460 |       |       |         |         |         |         |      |
| 20  | 47-20 | 47-30 |       |       | 47-35  | 47-35  |       |       | 1-141   | 1-151   | 1-151   | 1-161   | 68   |
|     | 47-30 | 47-40 | 47-50 | 47-60 | 47-440 | 47-55  | 47-55 | 47-65 |         |         | 1-161   |         |      |
|     | 47-40 | 47-50 | 47-60 |       | 47-460 | 47-440 | 47-65 |       |         |         |         |         |      |
|     |       |       |       |       | 47-460 |        |       |       |         |         |         |         |      |
| 25  | 47-40 | 47-50 |       |       | 47-35  | 47-55  |       |       | 1-151   | 1-151   | 1-161   | 1-161   | 77   |
|     | 47-50 | 47-60 | 47-60 | 47-60 | 47-55  | 47-65  | 47-55 | 47-65 |         |         |         |         |      |
|     |       |       |       |       | 47-440 | 47-460 | 47-65 |       |         |         |         |         |      |
|     |       |       |       |       | 47-460 |        |       |       |         |         |         |         |      |
| 30  | 47-40 | 47-50 |       |       | 47-55  | 47-55  |       |       | 1-151   | 1-151   | 1-161   | 1-161   | 86   |
|     | 47-50 | 47-60 | 47-60 | 47-60 | 47-440 | 47-65  | 47-65 | 47-65 |         |         |         |         |      |
|     |       |       |       |       | 47-460 | 47-460 |       |       |         |         |         |         |      |
| 35  |       |       |       |       | 47-55  | 47-65  |       |       | 1-151   | 1-161   | 1-161   | 1-161   | 95   |
|     | 47-50 | 47-60 | 47-60 | 47-60 | 47-440 | 47-460 | 47-65 | 47-65 |         |         |         |         |      |
|     |       |       |       |       | 47-460 |        |       |       |         |         |         |         |      |
| 40+ | 47-60 | 47-60 | 47-60 | 47-60 | 47-65  | 47-65  |       |       | 1-181** | 1-181** | 1-181** | 1-181** | 104+ |
|     |       |       |       |       | 47-440 | 47-460 | 47-65 | 47-65 |         |         |         |         |      |
|     |       |       |       |       | 47-460 |        |       |       |         |         |         |         |      |

HS Hardener, HS Verharder, HS Härter,  
HS Durcisseur, HS Endurecedor

HS420 Hardener, HS420 Verharder, HS420 Härter, HS420 Durcisseur,  
HS420 Endurecedor

| °C  |       |        |       |       |      |       |      |      |       |       |       |       | °F   |
|-----|-------|--------|-------|-------|------|-------|------|------|-------|-------|-------|-------|------|
| 10  |       |        |       |       |      |       |      |      |       |       |       |       | 50   |
| 15  | 8-130 | 8-130* | 8-150 |       | 8-30 | 8-30* |      |      | 8-430 | 8-430 | 8-430 | 8-450 | 59   |
|     |       | 8-140  |       |       | 8-40 | 8-40  | 8-50 |      | 8-440 | 8-440 | 8-440 | 8-450 |      |
|     |       | 8-150  |       |       |      |       |      |      | 8-550 | 8-550 | 8-550 | 8-550 |      |
| 20  | 8-130 | 8-130* | 8-150 |       | 8-30 | 8-40  |      |      | 8-430 | 8-430 | 8-440 |       | 68   |
|     | 8-140 | 8-140  | 8-160 | 8-160 | 8-50 | 8-50  | 8-50 |      | 8-440 | 8-440 | 8-450 | 8-450 |      |
|     |       | 8-150  |       |       |      |       |      |      | 8-550 | 8-550 | 8-550 | 8-460 |      |
| 25  | 8-130 | 8-130* |       |       | 8-30 | 8-40  |      |      | 8-430 | 8-430 | 8-440 |       | 77   |
|     | 8-140 | 8-140  |       |       | 8-40 | 8-50  | 8-50 | 8-50 | 8-440 | 8-440 | 8-450 | 8-450 |      |
|     |       | 8-150  | 8-160 | 8-160 |      |       |      |      | 8-550 | 8-550 | 8-460 | 8-460 |      |
| 30  | 8-130 | 8-140  | 8-160 | 8-160 | 8-30 | 8-50  | 8-50 | 8-50 | 8-430 | 8-430 |       |       | 86   |
|     | 8-140 | 8-150  |       |       | 8-40 |       |      |      | 8-440 | 8-440 | 8-450 | 8-450 |      |
|     |       |        |       |       |      |       |      |      | 8-550 | 8-450 | 8-460 | 8-460 |      |
| 35  | 8-130 | 8-140  |       |       |      |       | 8-50 |      | 8-440 | 8-450 | 8-450 |       | 95   |
|     | 8-140 | 8-150  | 8-160 | 8-160 | 8-40 | 8-50  | 8-60 | 8-60 | 8-450 | 8-550 | 8-460 | 8-460 |      |
|     |       |        |       |       |      |       |      |      | 8-550 |       |       |       |      |
| 40+ | 8-160 | 8-160  | 8-160 | 8-160 | 8-50 | 8-60  | 8-60 | 8-60 | 8-450 | 8-460 | 8-460 | 8-460 | 104+ |
|     |       |        |       |       |      |       |      |      | 8-550 | 8-550 |       |       |      |

UK The following applies to all hardeners : at extreme temperatures and humidity levels, please contact your local technician.

\*HS 8-130, HS420 8-30: only for vertical parts. \*\* 1-181 only for 500 Series under extreme high temperatures

NL Voor alle verharders geldt : bij extreme temperaturen en luchtvochtigheid, neem contact op met uw lokale technicus.

\*HS 8-130, HS420 8-30: alleen voor staande delen gebruiken. \*\*1-181 alleen voor 500 series onder extreem hoge temperaturen

DE Folgendes ist anwendbar bei allen Härtem : bei extremen Temperaturen und extremer Luftfeuchtigkeit, wenden Sie sich bitte an Ihren lokalen Techniker.

\*HS 8-130, HS420 8-30: nur für Senkrecht stehende Teile verwenden. \*\* 1-181 nur für die 500 Basislackserie bei extrem hohen Temperaturen

FR Pour tous les durcisseurs concernés : dans le cas de températures et humidité extrêmes, contactez votre technicien local.

\*HS 8-130 , HS420 8-30 : utiliser uniquement sur éléments verticaux. \*\* 1-181 est seulement pour de Séries 500 sous de températures extrême hautes.

ES Lo siguiente se aplica a todos los endurecedores : en casos de extrema temperatura y humedad, contacte su tecnico local.

\*HS 8-130 , HS420 8-30 : sólo usar para piezas verticales. \*\* 1-181 sólo para las series 500 en condiciones ambientales con altas temperaturas extremas.

UK The Technical information in this publication is based on our current knowledge and gives you an overview of the applications without engagement. This overview is meant as a means of assistance, always consult the Technical Data Sheet for the recommended hardeners and thinners. NL De technische gegevens uit deze publicatie steunen op onze huidige kennis en leveren u vrijblijvend een beeld van de toepassingsmogelijkheden. Dit overzicht dient als hulpmiddel, raadpleeg in alle gevallen de TDS voor de aanbevolen verharders en verdunners. DE Die technischen Daten aus diesen Publikationen beruhen auf unserem heutigen Wissenstand und geben Ihnen unverbindliche Darstellung von den Anwendungs-möglichkeiten. Diese Übersicht ist ein Hilfsmittel, konsultieren Sie in alle Fälle die technischen Datenblätter für die empfohlene Härter und Verdünner. FR Les spécifications techniques contenues dans cette publication sont basées sur nos connaissances actuelles et vous offrent, sans engagement, un aperçu des possibilités d'application. Cette liste sert d'aide, consultez dans tous les cas le fiche technique pour les durcisseurs et diluants recommandés. ES Los datos técnicos de esta publicación se basan en los conocimientos actuales y le ofrecen, sin compromiso, una imagen de las posibilidades de aplicación. Este resumen es una ayuda, consulte siempre el TDS para los endurecedores y diluyentes aconsejados.

| Product code       | Product name                      | Storage life*             | Auxiliary materials ROW                                                                                                                                                    | Auxiliary materials VOC/ROW    |
|--------------------|-----------------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Productcode        | Productnaam                       | Houdbaarheid*             | Bijbehorende producten ROW                                                                                                                                                 | Bijbehorende producten VOC/ROW |
| Produktcode        | Produktname                       | Lagerstabilität*          | Zusatzprodukte ROW                                                                                                                                                         | Zusatzprodukte VOC/ROW         |
| code produit       | Nom de produit                    | Stabilité de stockage*    | Produits annexes ROW                                                                                                                                                       | Produits annexes VOC/ROW       |
| código de producto | Nombre de producto                | Durada de almacenamiento* | Productos auxiliares ROW                                                                                                                                                   | Productos auxiliares VOC/ROW   |
| <b>47-20</b>       | <b>2K Hardener Air Dry</b>        | min. 1 year               | Series 2000, 1-103, 1-146                                                                                                                                                  |                                |
| <b>47-30</b>       | <b>2K Hardener Very Fast</b>      | min. 2 years              | Series 2000, 1-103, 1-146, 1-47, 8-149,                                                                                                                                    | 8-145                          |
| <b>47-40</b>       | <b>2K Hardener Fast</b>           | min. 2 years              | Series 2000, 1-103, 1-146, 8-149,                                                                                                                                          | 8-145                          |
| <b>47-50</b>       | <b>2K Hardener Medium</b>         | min. 2 years              | Series 2000, 1-103, 1-146, 8-149,                                                                                                                                          | 8-145                          |
| <b>47-60</b>       | <b>2K Hardener Slow</b>           | min. 2 years              | Series 2000, 1-103, 1-146, 8-149,                                                                                                                                          | 8-145                          |
| <b>47-35</b>       | <b>MS Hardener Fast</b>           | min. 2 years              | Series 2000, 1-103, 1-204, 1-146, 47-14, 8-149,                                                                                                                            | 1-105, 8-145                   |
| <b>47-55</b>       | <b>MS Hardener Medium</b>         | min. 2 years              | Series 2000, 1-103, 1-204, 1-146, 47-14, 8-149,                                                                                                                            | 1-105, 8-145                   |
| <b>47-65</b>       | <b>MS Hardener Slow</b>           | min. 2 years              | Series 2000, 1-103, 1-204, 1-146, 47-14, 8-149,                                                                                                                            | 1-105, 8-145                   |
| <b>47-440</b>      | <b>Air Dry Hardener Medium</b>    | 2 years                   | 1-404                                                                                                                                                                      |                                |
| <b>47-460</b>      | <b>Air Dry Hardener Slow</b>      | 2 years                   | 1-404                                                                                                                                                                      |                                |
| <b>8-130</b>       | <b>HS Hardener Very Fast</b>      | min. 1 year               | Series 2000, 8-104,                                                                                                                                                        | 8-145                          |
| <b>8-140</b>       | <b>HS Hardener Fast</b>           | min. 2 years              | Series 2000, 8-104, 8-145                                                                                                                                                  | 8-214                          |
| <b>8-150</b>       | <b>HS Hardener Medium</b>         | min. 2 years              | Series 2000, 8-104, 8-145                                                                                                                                                  | 8-214                          |
| <b>8-160</b>       | <b>HS Hardener Slow</b>           | min. 2 years              | Series 2000, 8-104, 8-145                                                                                                                                                  | 8-214                          |
| <b>8-30</b>        | <b>HS420 Hardener Very Fast</b>   | min. 1 year               | Series 3000                                                                                                                                                                |                                |
| <b>8-40</b>        | <b>HS420 Hardener Fast</b>        | min. 1 year               | Series 3000, 8-145, 8-149                                                                                                                                                  |                                |
| <b>8-50</b>        | <b>HS420 Hardener Medium</b>      | min. 1 year               | Series 3000, 8-145, 8-149, 30-746                                                                                                                                          |                                |
| <b>8-60</b>        | <b>HS420 Hardener Slow</b>        | min. 1 year               | Series 3000                                                                                                                                                                |                                |
| <b>8-430</b>       | <b>HS420 Hardener Very Fast</b>   | min. 1 year               | Series 3000, 8-414, 8-614, 8-714, 8-149                                                                                                                                    |                                |
| <b>8-440</b>       | <b>HS420 Hardener Fast</b>        | min. 1 year               | Series 3000, 8-414, 8-614, 8-714, 8-145, 8-149                                                                                                                             |                                |
| <b>8-450</b>       | <b>HS420 Hardener Medium</b>      | min. 2 years              | Series 3000, 8-414, 8-614, 8-714, 8-145, 8-149, 30-746                                                                                                                     |                                |
| <b>8-460</b>       | <b>HS420 Hardener Slow</b>        | min. 2 years              | Series 3000, 8-414, 8-714, 8-149                                                                                                                                           |                                |
| <b>8-550</b>       | <b>HS420 Speed Clear Hardener</b> | min. 2 years              | 8-514                                                                                                                                                                      |                                |
| <b>11-150</b>      | <b>2K (4:1) Hardener Medium</b>   | min. 1 year               | 1-102                                                                                                                                                                      |                                |
| <b>1-10</b>        | <b>Washprimer Hardener</b>        | 2 years                   | 1-15                                                                                                                                                                       |                                |
| <b>1-12</b>        | <b>Washprimer CH Hardener</b>     | 2 years                   | 1-17 CH                                                                                                                                                                    |                                |
| <b>1-70</b>        | <b>Epoxy Primer Hardener</b>      | 2 years                   | 1-7510/1-7520                                                                                                                                                              |                                |
| <b>1-7040</b>      | <b>Epoxy Primer Hardener Fast</b> | 2 years                   | 1-7510/1-7520                                                                                                                                                              |                                |
| <b>1-141</b>       | <b>UNI Thinner Fast</b>           | min. 5 years              | Series 500, 2000, 1-102, 1-103, 1-204, 1-404, 8-104, 1-146, 1-185, 1-47 47-14 Wizard Color, 1-105, 8-214, 8-414, 8-514, 8-614, 8-714, 8-145, 8-149, 1-7510/1-7520, 30-746  |                                |
| <b>1-151</b>       | <b>UNI Thinner Medium</b>         | min. 5 years              | Series 500, 2000, 1-102, 1-103, 1-204, 1-404, 8-104, 1-146, 1-185, 1-47, 47-14 Wizard Color, 1-105, 8-214, 8-414, 8-514, 8-614, 8-714, 8-145, 8-149, 1-7510/1-7520, 30-746 |                                |
| <b>1-161</b>       | <b>UNI Thinner Slow</b>           | min. 5 years              | Series 500, 2000, 1-102, 1-103, 1-204, 1-404, 8-104, 1-146, 1-185, 1-47, 47-14 Wizard Color, 1-105, 8-214, 8-414, 8-514, 8-614, 8-714, 8-145, 8-149, 1-7510/1-7520, 30-746 |                                |
| <b>1-171</b>       | <b>UNI Thinner Very Slow</b>      | min. 5 years              | Series 500, Wizard Colors, 1-404                                                                                                                                           |                                |
| <b>1-181</b>       | <b>UNI Thinner Ultra Slow</b>     | min. 3 years              | Series 500, Wizard Colors                                                                                                                                                  |                                |
| <b>47-91</b>       | <b>2K Spot Repair Thinner</b>     | min. 5 years              | Series 2000, 1-102, 1-204, 8-104, 8-214,                                                                                                                                   |                                |
| <b>8-171</b>       | <b>HS Thinner Very Slow</b>       | min. 5 years              | 8-145                                                                                                                                                                      |                                |
| <b>8-181</b>       | <b>HS420 Special Thinner</b>      | min. 2 years              | Series 3000                                                                                                                                                                |                                |
| <b>9-151</b>       | <b>WaterBase Thinner</b>          | min. 5 years              | Series 900                                                                                                                                                                 |                                |
| <b>9-161</b>       | <b>WaterBase Thinner Slow</b>     | min. 5 years              | Series 900                                                                                                                                                                 |                                |

\*GB: Under normal storage conditions and unopened tins. **Note:** The tin should be closed immediately after use.

\*NL: Bij normale opslagcondities en ongeopende bus. **Let Op:** Na gebruik de bus direct sluiten.

\*DE: Unter normalen Lagerungsbedingungen bei un geöffnetem Behälter. **Hinweis:** Dose nach Gebrauch sofort gut verschließen.

\*FR: Dans des conditions normales de stockage et bidon non ouvert. **En cas de transvasement,** bien refermer le bidon immédiatement après emploi.

\*ES: En condiciones normales de almacenamiento en recipiente cerrado. **En caso de reenvasado,** cerrar el bote inmediatamente después del uso.

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| OVERVIEW MEASURING STICKS |                 | VUE D'ENSEMBLE REGLETTES DE MÉLANGE |                                                                                                                                                                                                                                                      | <div>DE BEER<br/>REFINISH</div> |  |
|---------------------------|-----------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|--|
| OVERZICHT MAATLATTEN      |                 | RESUMEN REGLAS DE MEZCLA            |                                                                                                                                                                                                                                                      |                                                                                                                    |  |
| ÜBERSICHT MESS-STABS      |                 |                                     |                                                                                                                                                                                                                                                      |                                                                                                                    |  |
| Artikel code              | Measuring Stick | Mixing ratio                        | Auxiliary materials ROW                                                                                                                                                                                                                              | Auxiliary materials VOC/ROW                                                                                        |  |
| Productcode               | Maatlat         | Mengverhouding                      | Bijbehorende producten ROW                                                                                                                                                                                                                           | Bijbehorende producten VOC/ROW                                                                                     |  |
| Produktcode               | Mess-Stab       | Mischungsverhältnis                 | Zusatzprodukte ROW                                                                                                                                                                                                                                   | Zusatzprodukte VOC/ROW                                                                                             |  |
| code produit              | Reglette        | Rapport de mélange                  | Produits annexes ROW                                                                                                                                                                                                                                 | Produits annexesVOC/ROW                                                                                            |  |
| código de producto        | Regleta         | Proporción de mezcla                | Productos auxiliares ROW                                                                                                                                                                                                                             | Productos auxiliaresVOC/ROW                                                                                        |  |
| 54-201                    | DM1             | 1 : 1    0-35%                      | 500                                  1:1                                                                                                                                                                                                             | 1-15                                  1:1                                                                          |  |
|                           |                 | 2 : 1    0-35%                      | 2000 (2K/MS)                      2:1 + 5-10%                                                                                                                                                                                                        | 1-17                                  1:1                                                                          |  |
|                           |                 |                                     | 1-103                                  2:1                                                                                                                                                                                                           | 8-149 Non Sanding (3000, 8-414/8-440, 8-450)    1:1/ 4:1 + 25% —                                                   |  |
|                           |                 |                                     | 1-204                                  2:1 + 0-10%                                                                                                                                                                                                   | 3000                                  2:1 + 15%                                                                    |  |
|                           |                 |                                     | 8-104                                  2:1 + 0-5%                                                                                                                                                                                                    | 1-105                                  2:1 + 0-10%                                                                 |  |
|                           |                 |                                     | 47-14                                  2:1 + 0-10%                                                                                                                                                                                                   | 8-214                                  2:1 + 0-5%                                                                  |  |
| 54-202                    | DM2             | 3 : 1    0-35%                      | 2000 (HS)                              3:1 + 5-10%<br>8-149 Sanding (2000, 1-204/2K,MS)    3:1/ 3:1 + 0-10%                                                                                                                                          | 1-060/1-065                      2:1 see TDS                                                                       |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 1-7510/1-7520                      2:1 + 15%                                                                       |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 30-69                                  2:1 + 0-20%                                                                 |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 8-414                                  3:1 + 0-5%                                                                  |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 8-514                                  3:1 + 10%                                                                   |  |
|                           |                 | 4 : 1    0-35%                      | 1-102                                  4:1<br>1-404                                  4:1 + 0-5%<br>1-146/1-14620                      4:1 + max 10%<br>8-145 Sanding (HS)                4:1 + 0-25%<br>8-145 Non Sanding (HS)         4:1 + max 30% | 8-614                                  3:1 + 5%                                                                    |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 8-714                                  3:1 + 5%                                                                    |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 8-145 Sanding (2K/MS)            3:1 + max 10%                                                                     |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 8-145_Non Sanding (2K/MS)     3:1 + max 20%                                                                        |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 8-145_Sanding (HS)                4:1 + max 15%                                                                    |  |
| 54-203                    | DM3             | 5 : 1    0-35%                      |                                                                                                                                                                                                                                                      | 8-149 Sanding (3000, 8-414/8-430->8-460)    4:1/ 6:1 + max 10%                                                     |  |
|                           |                 | 6 : 1    0-35%                      |                                                                                                                                                                                                                                                      | 8-149 Non Sanding (3000, 8-414/8-440, 8-450)    1:1/ 4:1 + 25%                                                     |  |
|                           |                 |                                     |                                                                                                                                                                                                                                                      | 30-746                                  5:1 + 20%                                                                  |  |
| 54-173/90                 | 54-173/ 90      | 3 : 3 : 2    12,5/25%               | 8-149 Non Sanding (2000, 1-204/MS)    1:1/ 3:1 + 20%<br>47-09 (2000/2K)                      1:1/ 3:1 + 0-5%                                                                                                                                         | 30-09 (3000/HS420)                1:1/ 3:1 +12,5%                                                                  |  |
|                           |                 | 4 : 1 : 1    10%                    |                                                                                                                                                                                                                                                      |                                                                                                                    |  |